STR-DE725

SERVICE MANUAL

US Model

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output .

Amplifier section

POWER OUTPUT

Stereo mode (8 ohms 20 Hz –20 kHz, THD 0.09%)
100 W + 100 W

Surround mode (8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center[a)]: 100 W
Rear[a)]: 100 W/ch

a) Depending on the sound field settings and the source, there may be no sound output.

Dynamic power output
155 W + 155 W, 8 ohms
220 W + 220 W, 4 ohms

Harmonic distortion at rated output
Less than 0.09% (with sound field, tone, and bass booster bypassed)

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, TAPE, MD/DAT, TAPE/MD, DVD/LD, TV/DBS, VIDEO 1 and VIDEO 2 :
10 Hz - 50 kHz +0.5/–2 dB (with sound field, tone, and bass booster bypassed)

Inputs (Analog) PHONO:
Sensitivity: 2.5 mV
Impedance: 50 kilohms
S/N[b)]: 75 dB (A, 2.5 mV[c)])
CD, DVD/LD, TAPE, MD/DAT, TAPE/MD, TV/DBS, VIDEO 1 and VIDEO 2 :
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b)]: 82 dB (A, 150 mV[c)])

b) 78' IHF
c) Weighted network, input level

Inputs (Digital) DVD/LD:
Sensitivity: –
Impedance: –
S/N: 100 dB (A, 20 kHz LPF)

Outputs TAPE/MD, (REC OUT); VIDEO 1, 2 (AUDIO OUT):
Voltage: 150 mV
Impedance: 10 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohms
PHONES:
Accepts low - and high-impedance headphones

BASS BOOST +6 dB at 70 Hz

— Continued on next page —

FM STEREO FM-AM RECORDER

MICROFILM

SONY®

Sampling Frequency
48 kHz
EQ BASS:
100 Hz ~ 1.0 kHz (21 steps)
MID:
500 Hz ~ 5.0 kHz (21 steps)
TREBLE:
1.0 kHz ~ 10 kHz (21 steps)
Gain levels:
±10 dB, 1 dB step

FM tuner section

Tuning range 87.5 - 108.0 MHz
Antenna terminals
75 ohms, unbalanced
Sensitivity Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV
Usable sensitivity
11.2 dBf, 2 µV (IHF)
S/N Mono: 76 dB
Stereo: 70 dB
Harmonic distortion at 1 kHz
Mono: 0.3 %
Stereo: 0.5 %
Separation 45 dB at 1 kHz
Frequency response
30 Hz - 15 kHz +0.5/-2 dB
Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range With 10-kHz tuning scale:
530 - 1710 kHz[d)]
With 9-kHz tuning scale:
531 - 1710 kHz[d)]
Antenna Loop antenna
Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)
S/N 54 dB (at 50 mV/m)
Harmonic distortion
0.5% (50 mV/m, 400 kHz)
Selectivity At 9 kHz: 35 dB
At 10 kHz: 40 dB

d)You can change the AM tuning scale to 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the I/⏻ button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz, repeat the procedure.

Video section

Input 1 Vp-p 75 ohms
Outputs 1 Vp-p 75 ohms

General

System Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low- noise NF type equalizer
Power amplifier section:
Pure-complementary SEPP
Power requirements
120 V AC, 60 Hz
Power consumption
290 W
AC outlets 2 switched, total 100 W
Dimensions 430 × 355 × 157.5 mm
(17 × 14 × 6 1/4 in.)
including projecting parts and controls
Mass (Approx.) 10.5 kg (23 lb 3 oz)
Supplied accessories
• FM wire antenna (1)
• AM loop antenna (1)
• Remote commander RM-PP401 (remote) (1)
• Carbon-ZINC dry batteries (2)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

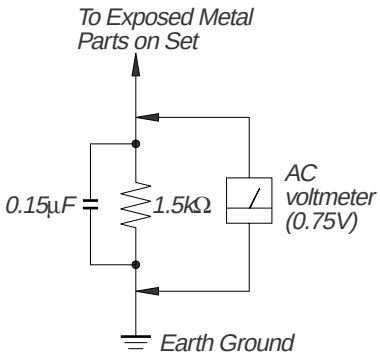

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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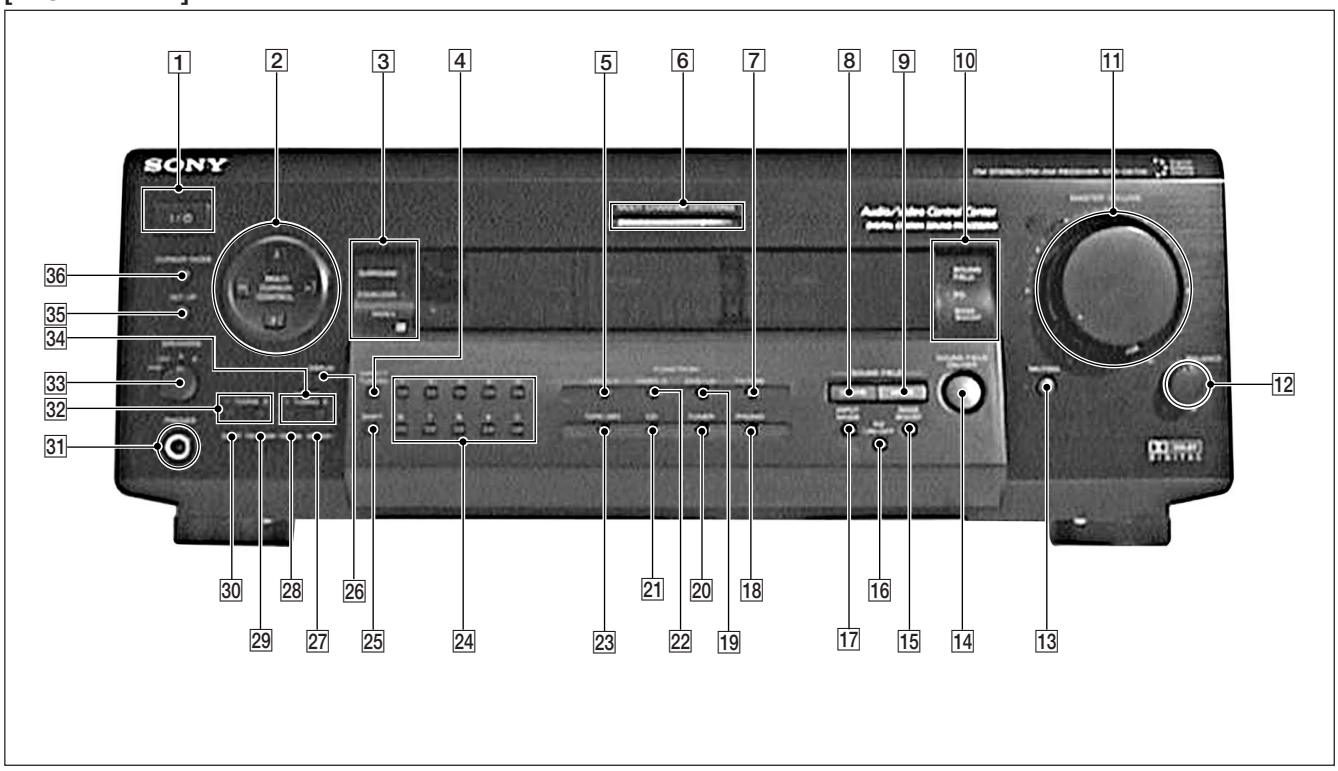
SECTION 1
GENERAL

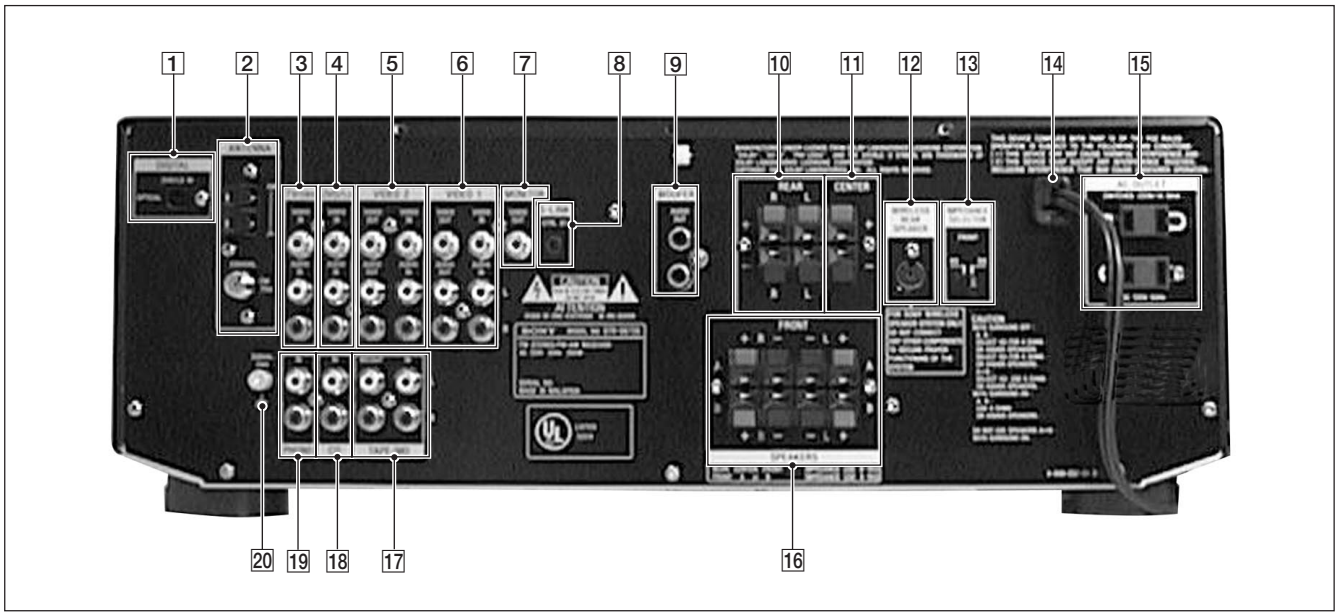
LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



1 I/⏻ (POWER) button
2 MULTI CURSOR CONTROL
3 SURROUND, EQUALIZER, INDEX indicators
4 DIRECT TUNING button
5 VIDEO 1 button
6 MULTI CHANNEL DECODING indicator
7 TV/DBS button
8 SOUND FIELD GENRE button
9 SOUND FIELD MODE button
10 SOUND FIELD, EQ, BASS BOOST indicators
11 MASTER VOLUME control
12 BALANCE control
13 MUTING button
14 SOUND FIELD ON/OFF button
15 BASS BOOST button
16 EQ ON/OFF button
17 INPUT MODE button
18 PHONO button
19 DVD/LD
20 TUNER button
21 CD button
22 VIDEO 2 button
23 TAPE/MD button
24 Numeric buttons
25 SHIFT button
26 DISPLAY button
27 MEMORY button
28 FM/AM button
29 FM MODE button
30 SLEEP button
31 PHONES jack
32 TUNING +, – buttons
33 SPEAKERS A, B switche
34 PRESET TUNING +, – buttons
35 SET UP button
36 CURSOR MODE button

[REAR PANEL]



1 DIGITAL
2 ANTENNA (FM/AM)
3 TV/LD
4 DVD/LD
5 VIDEO 2
6 VIDEO 1
7 MONITOR
8 S-LINK
9 WOOFER
10 SPEAKERS (REAR)
11 SPEAKER (CENTER)
12 WIRELESS REAR SPEAKER
13 IMPEDANCE SELECTOR
14 AC power cord
15 AC OUTLET
16 FRONT SPEAKERS (A/B)
17 SPEAKERS (FRONT)
18 CD
19 PHONO
20 ⏚ SIGNAL GND

SECTION 2
TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the SET UP and the SOUND FIELD MODE buttons simultaneously, press the power I/⏻ button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another.

FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the SET UP and the SOUND FIELD ON/OFF buttons simultaneously, press the power I/⏻ button to turn on the main power. The message FACTORY SET appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the DISPLAY and the SOUND FIELD ON/OFF buttons simultaneously, press the power I/⏻ button to turn on the main power. The machine enters the DEMO mode.DEMO mode: Wait a while, then the demonstration starts. If the power I/⏻ button is pressed often the demonstration has started, the power is turned off, and the demonstration resumes if the power I/⏻ button is pressed again.
  ALL CLEAR mode; If the power I/⏻ button is pressed often the machine enters the DEMO mode, but before the demonstration starts, the display is turned off. Press I/⏻ again. No response is returned. Then press I/⏻ again. The preset data is cleared and the machine enters the normal power-on state.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD ON/OFF button, press the power I/⏻ button to turn on the main power. The message SURR CLEAR! appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

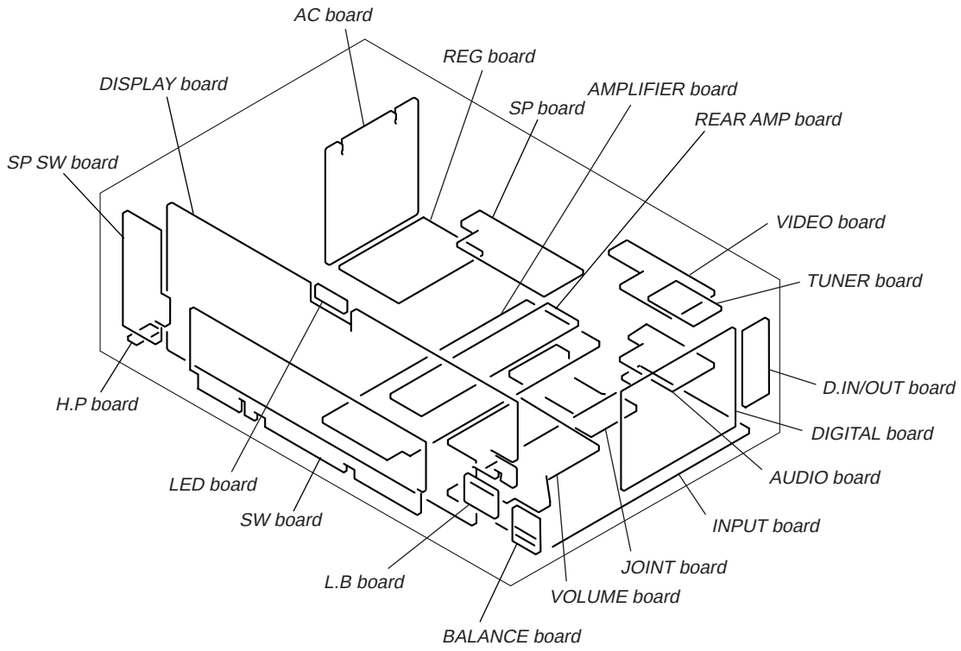
* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING + button, press the power I/⏻ button to turn on the main power.
  Either the message AM 9kHz STEP or AM 10kHz STEP appears. Select the desired step.

DSP TEST MODE

* Procedure:
  While depressing the SET UP and the SOUND FIELD GENRE buttons simultaneously, press the power I/⏻ button to turn on the main power. The message DSP NO ERROR or DSP ERROR.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B− Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : CD
  : DIGITAL
  : PHONO

For printed wiring boards.
Note:

- ○——— : parts extracted from the component side.
- ○ : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

• Waveform

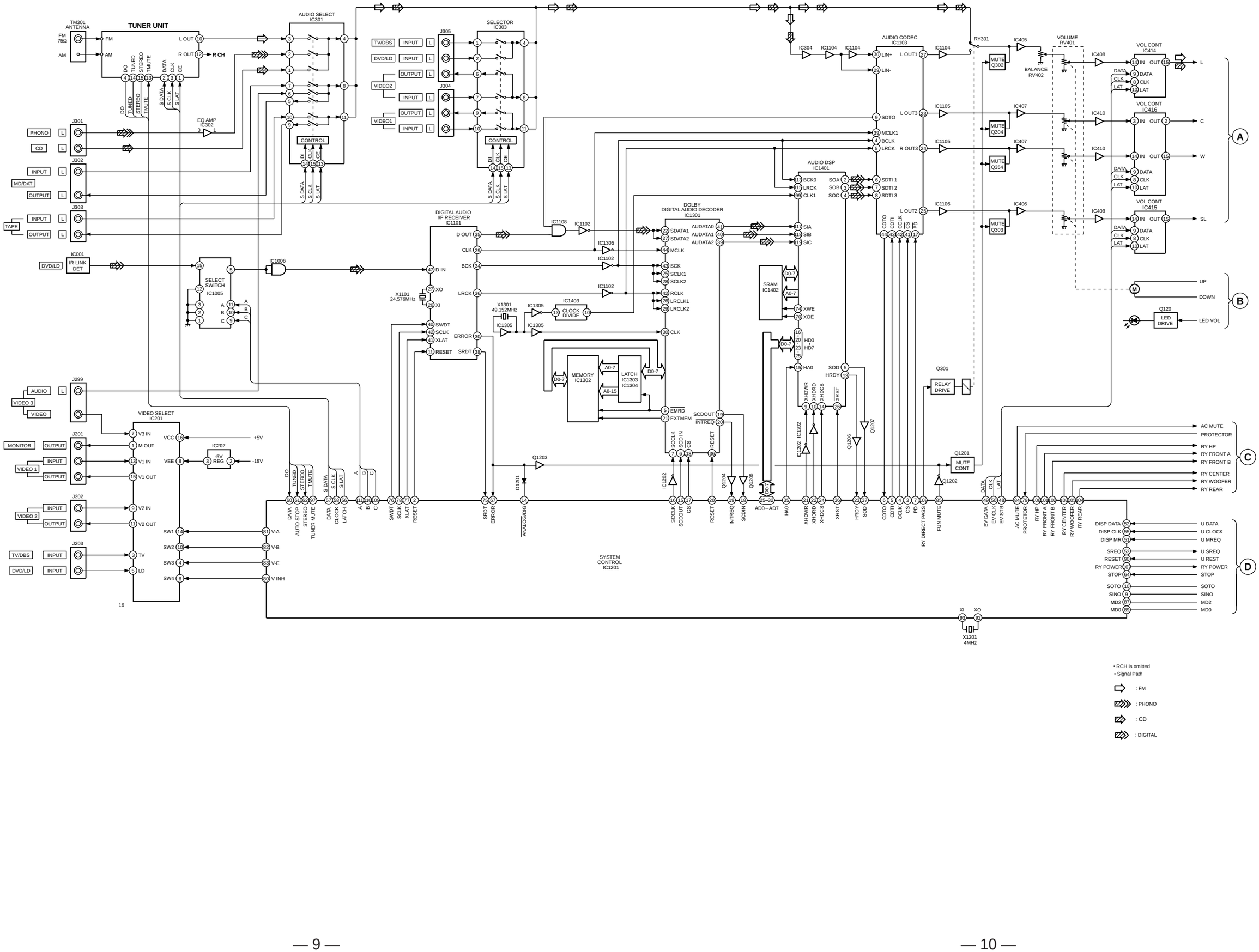
① IC1201 ⑫ (XO)

② IC1101 ㉗ (X OUT)

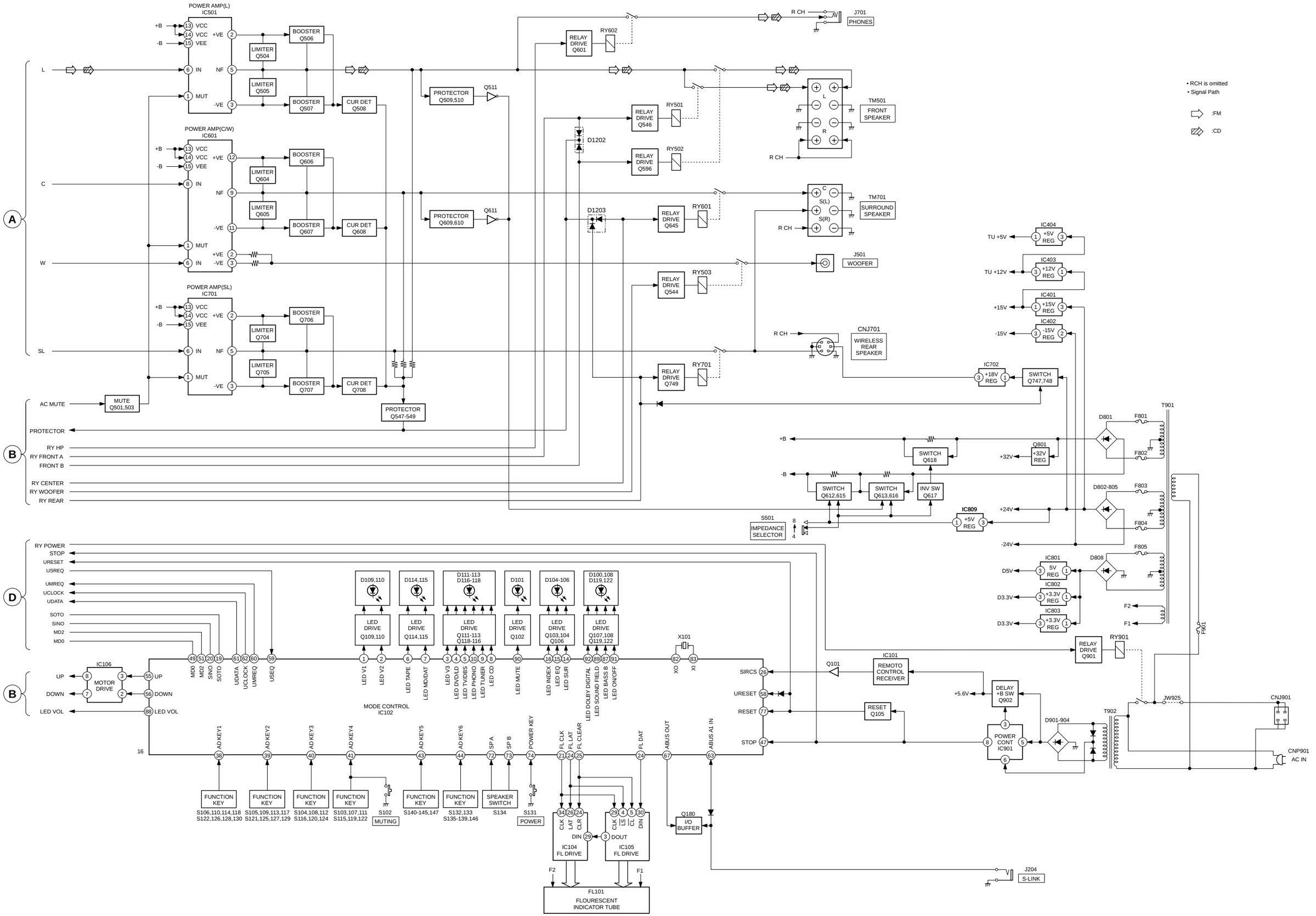
③ IC1101 ㉙ (CLK OUT)

④ IC102 ㉜ (XO)

3-2. BLOCK DIAGRAM – MAIN SECTION –



3-3. BLOCK DIAGRAM – POWER SECTION –

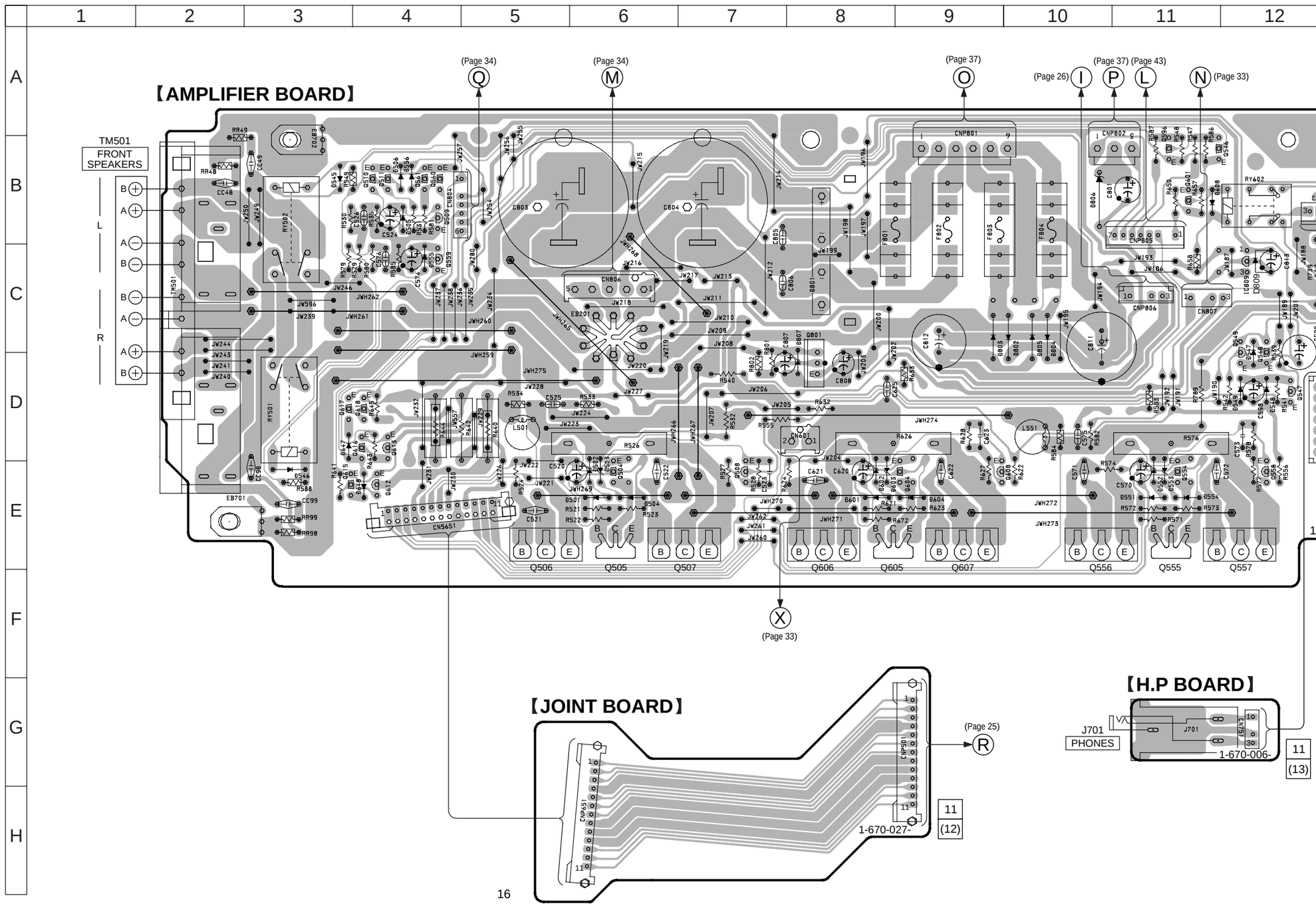


3-4. PRINTED WIRING BOARD — AMP SECTION —

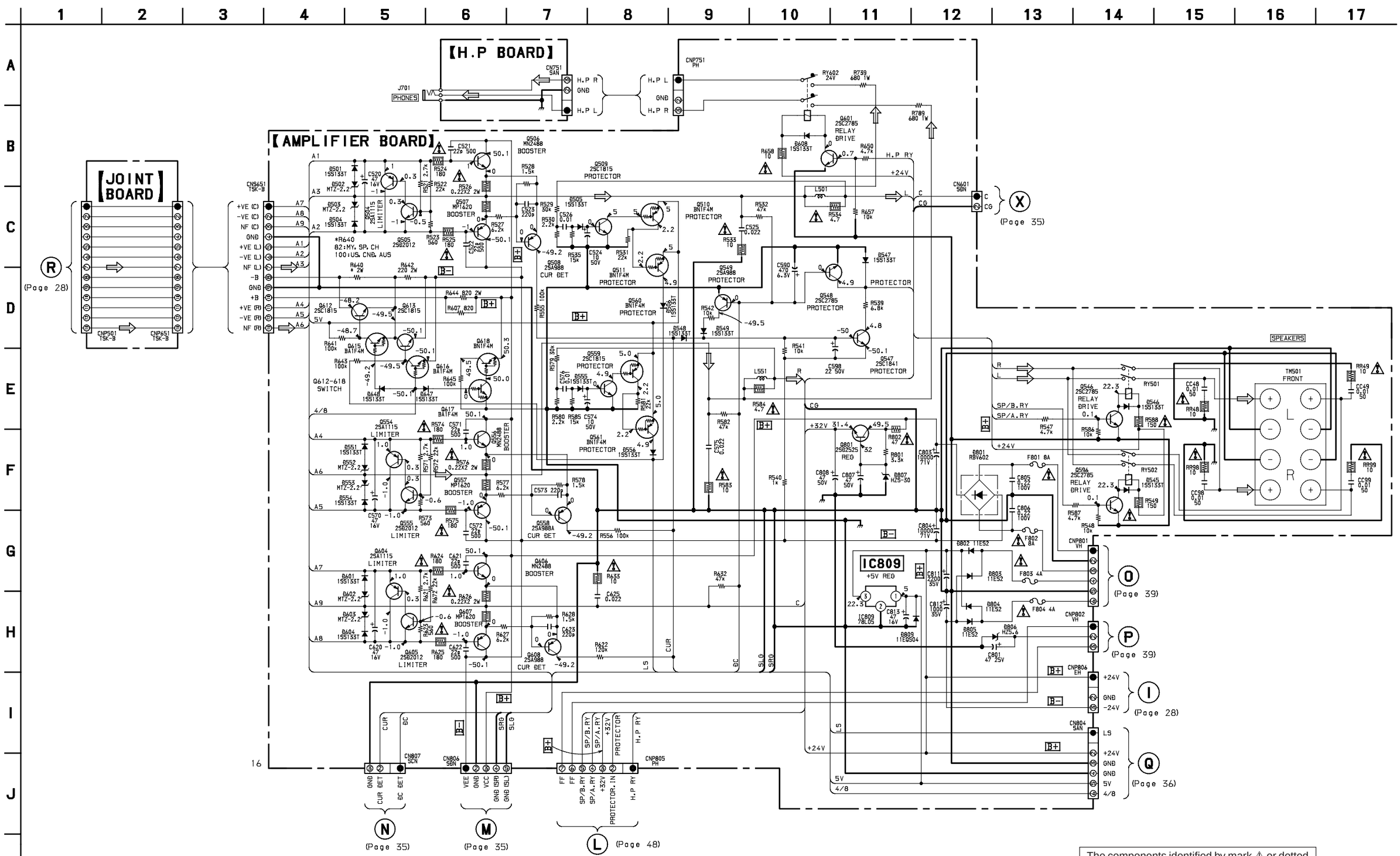
• See page 7 for Circuit Boards Location.

• **Semiconductor Location**

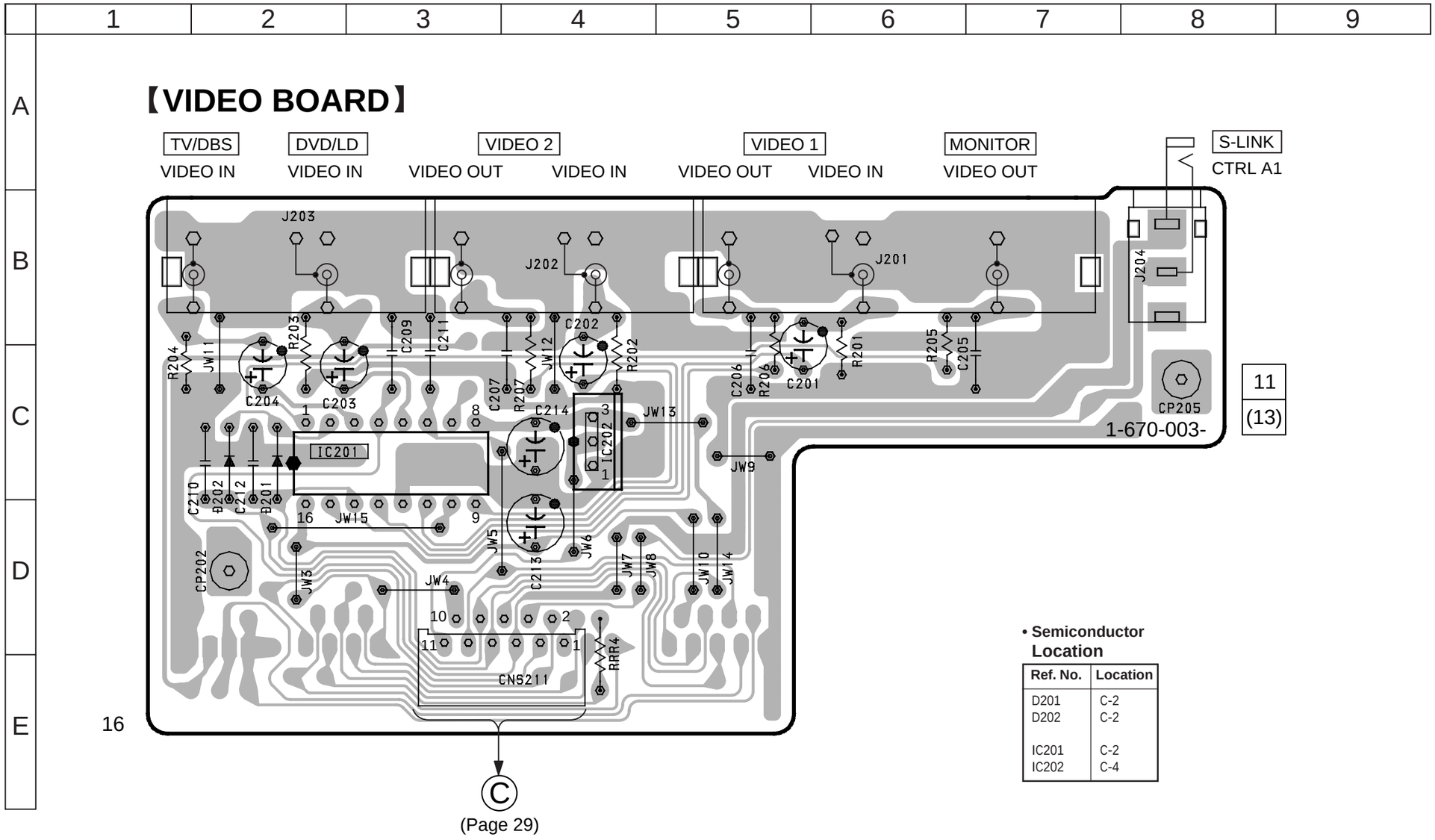
Ref. No.	Location
D501	E-6
D502	E-6
D503	E-6
D504	E-6
D505	B-4
D506	B-4
D545	B-3
D546	E-3
D547	D-12
D548	D-12
D549	D-12
D551	E-11
D552	E-11
D553	E-11
D554	E-11
D555	C-4
D556	B-4
D601	E-8
D602	E-8
D603	E-8
D604	E-9
D608	C-11
D647	D-3
D648	E-4
D801	C-8
D802	D-10
D803	C-9
D804	D-10
D805	D-10
D806	B-10
D807	D-8
D809	C-12
IC809	C-12
Q504	E-6
Q505	E-6
Q506	E-5
Q507	F-7
Q508	E-7
Q509	B-4
Q510	B-4
Q511	B-4
Q546	B-11
Q547	D-12
Q548	D-12
Q549	D-12
Q554	E-11
Q555	E-11
Q556	E-10
Q557	E-12
Q558	E-12
Q559	C-4
Q560	B-4
Q561	B-4
Q596	B-11
Q601	B-11
Q604	E-9
Q605	E-8
Q606	E-8
Q607	E-9
Q608	E-9
Q612	E-4
Q613	D-4
Q615	E-3
Q616	D-3
Q617	D-3
Q618	D-3
Q801	D-8



3-5. SCHEMATIC DIAGRAM — AMP SECTION —



3-6. PRINTED WIRING BOARD — VIDEO SECTION — • See page 7 for Circuit Boards Location.

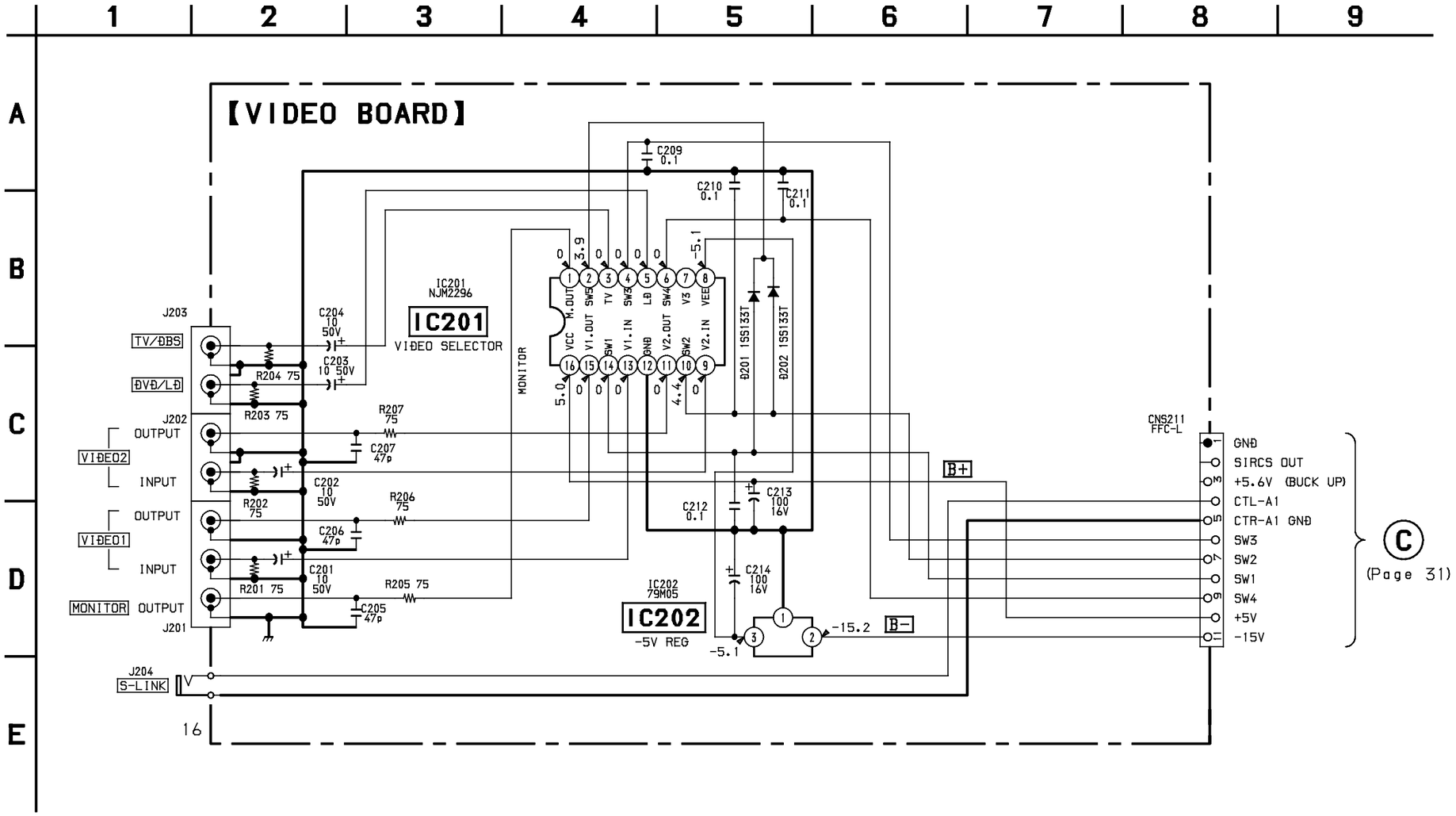


• **Semiconductor Location**

Ref. No.	Location
D201	C-2
D202	C-2
IC201	C-2
IC202	C-4

3-7. SCHEMATIC DIAGRAM — VIDEO SECTION —

• See pages 61 for IC Block Diagrams.

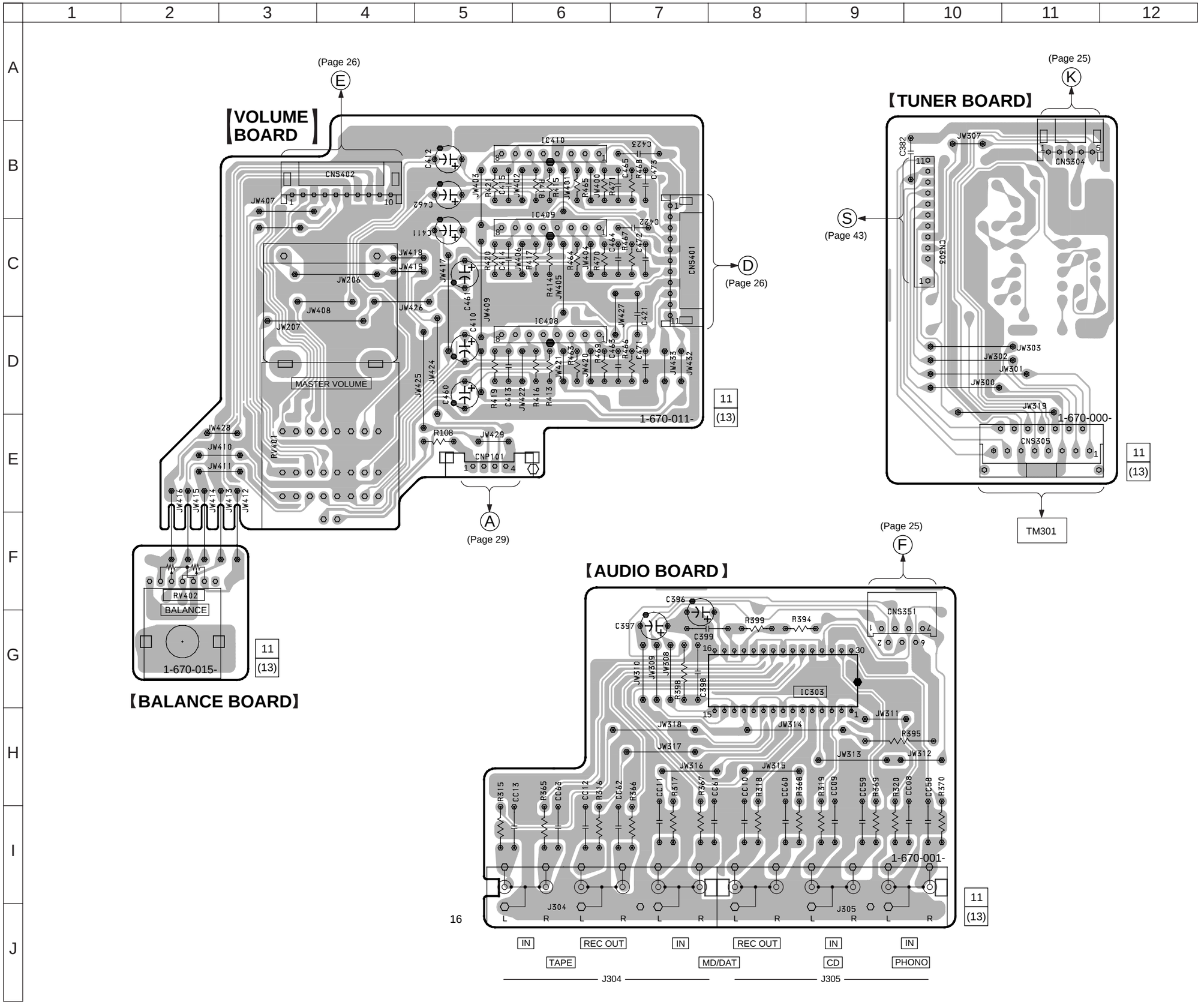


3-8. PRINTED WIRING BOARD — AUDIO SECTION —

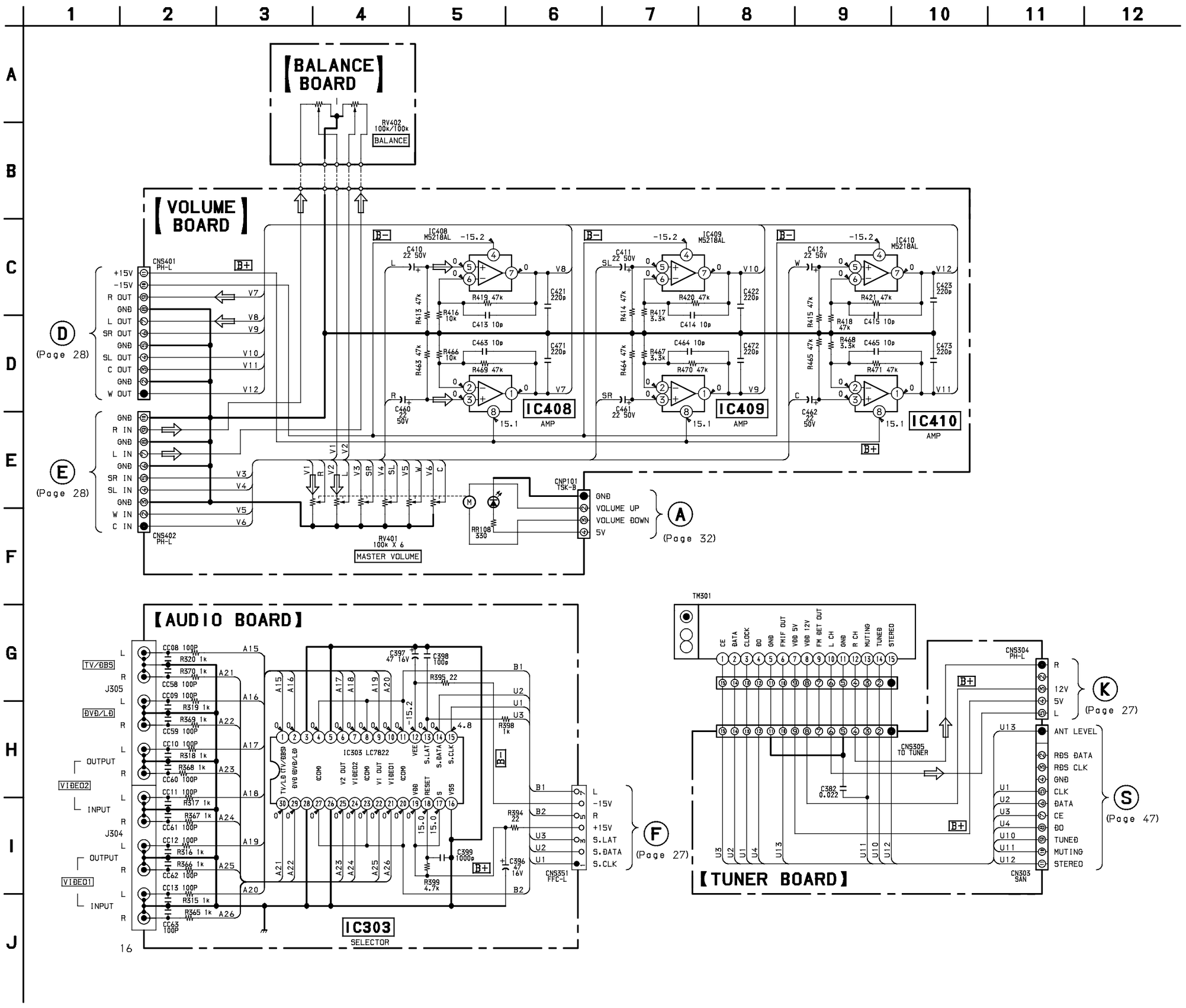
• See page 7 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
IC303	G-8
IC408	D-6
IC409	C-6
IC410	B-6



3-9. SCHEMATIC DIAGRAM — AUDIO SECTION —



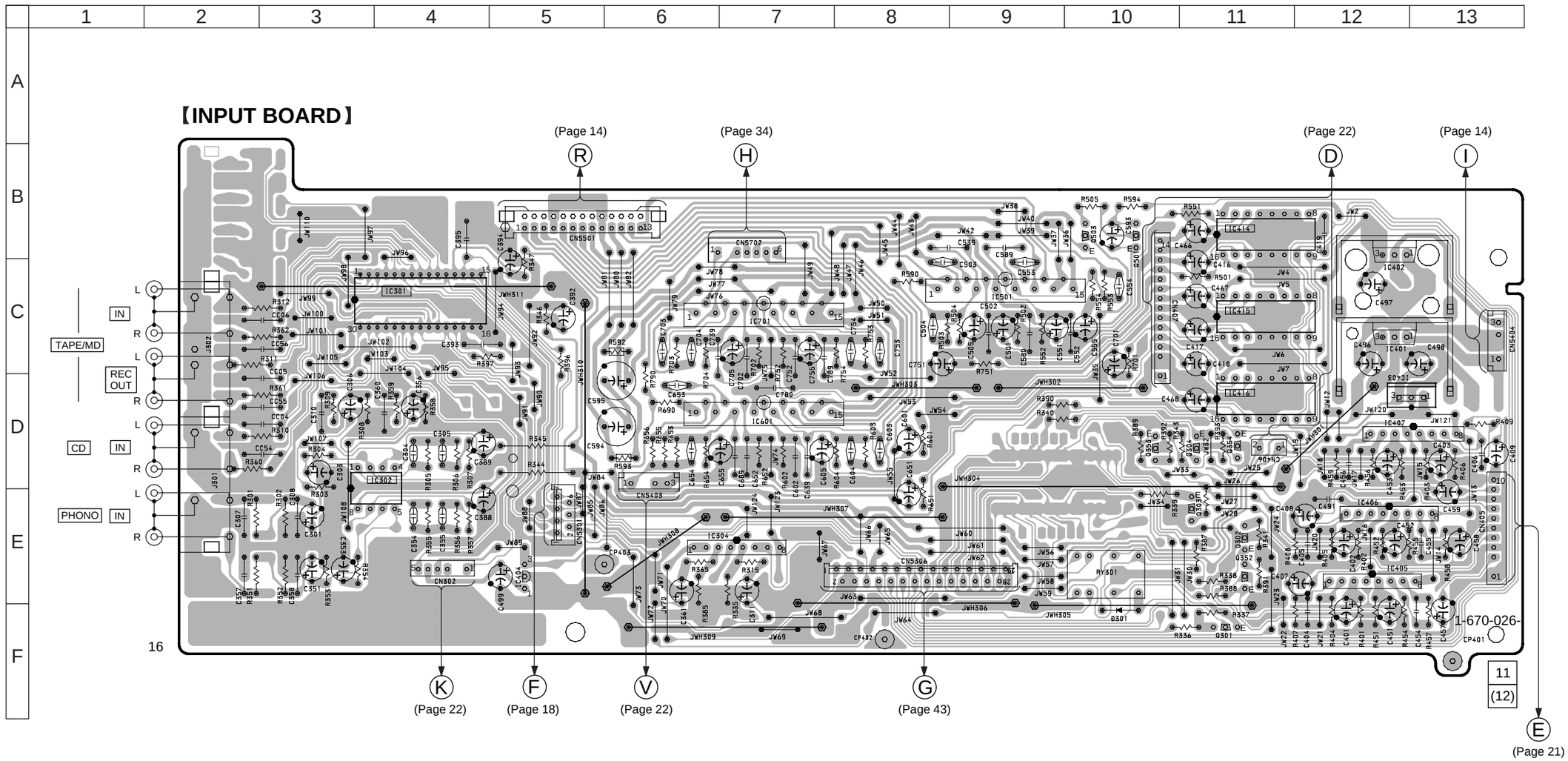
3-10. PRINTED WIRING BOARD — INPUT SECTION —

• See page 7 for Circuit Boards Location.

• **Semiconductor Location**

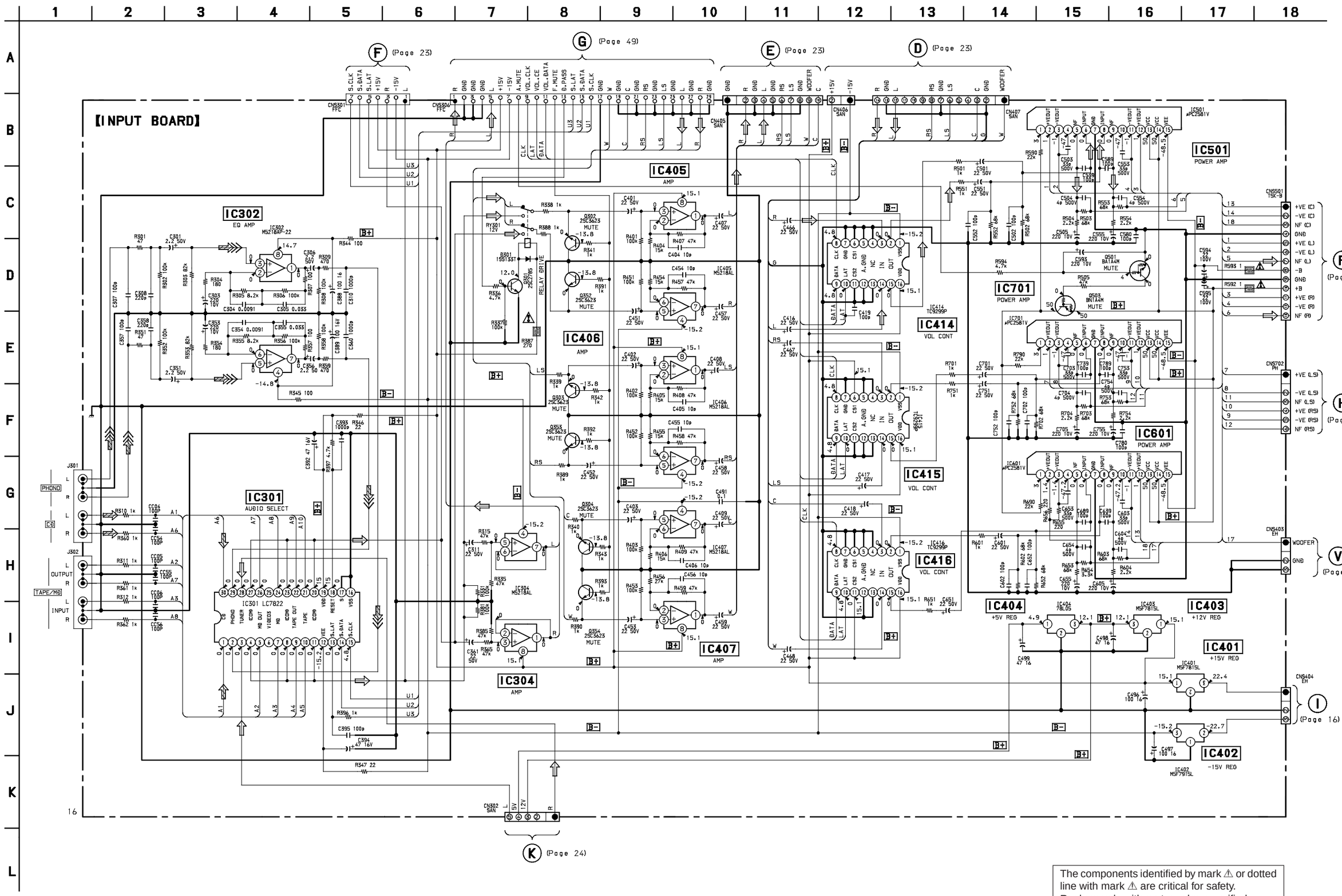
Ref. No.	Location
D301	F-10
IC301	C-4
IC302	D-4
IC304	E-6
IC401	C-12
IC402	B-12
IC403	D-12
IC404	E-4
IC405	E-12
IC406	D-12
IC407	D-12
IC414	B-11
IC415	C-11
IC416	D-11
IC501	C-9
IC601	D-7
IC701	C-7
Q301	F-11
Q302	E-11
Q303	E-11
Q304	D-11
Q352	E-11
Q353	D-10
Q354	D-11
Q501	C-10
Q503	C-10

【INPUT BOARD】



3-11. SCHEMATIC DIAGRAM — INPUT SECTION —

• See page 61 for IC Block Diagrams.



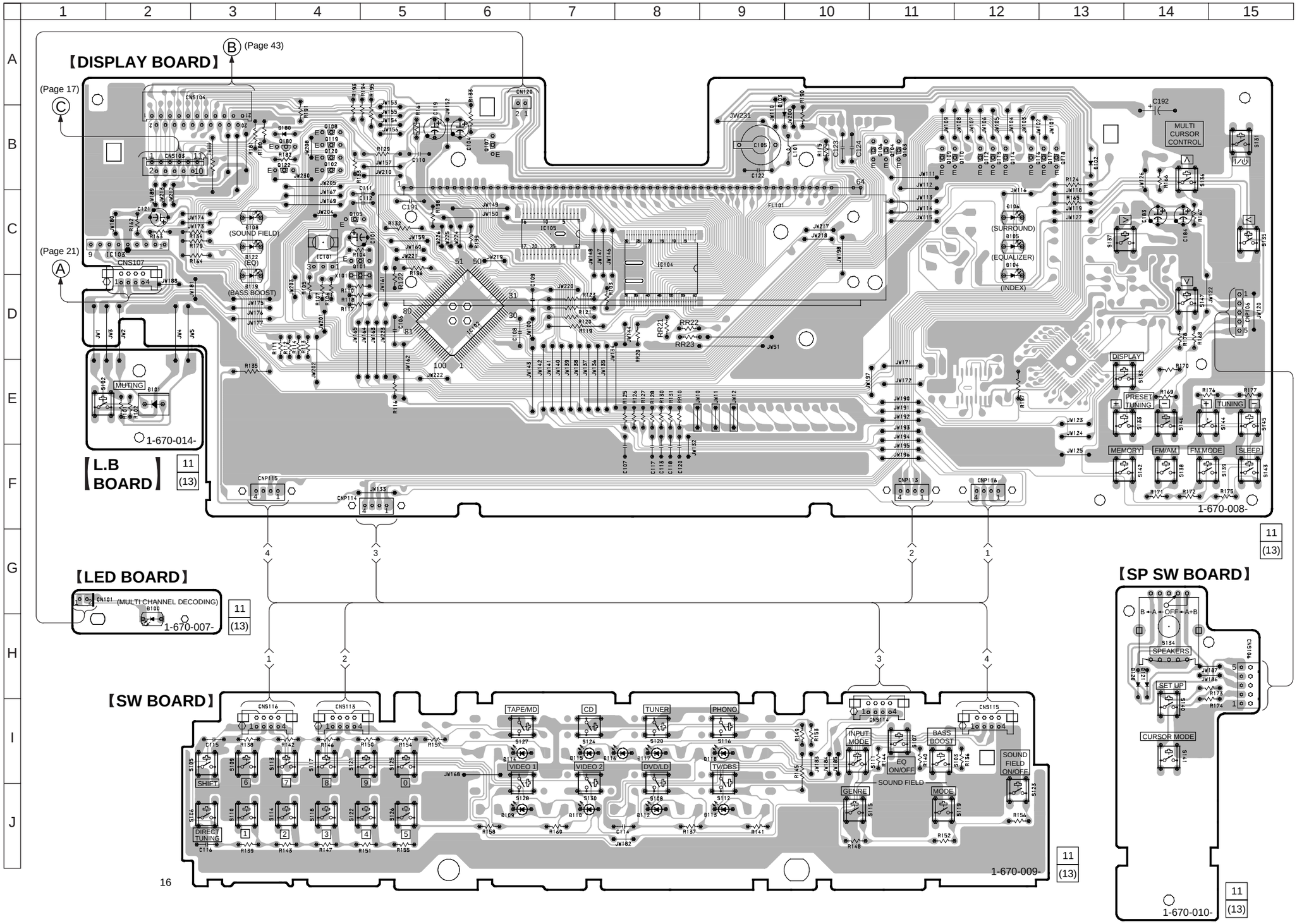
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

3-12. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 7 for Circuit Boards Location.

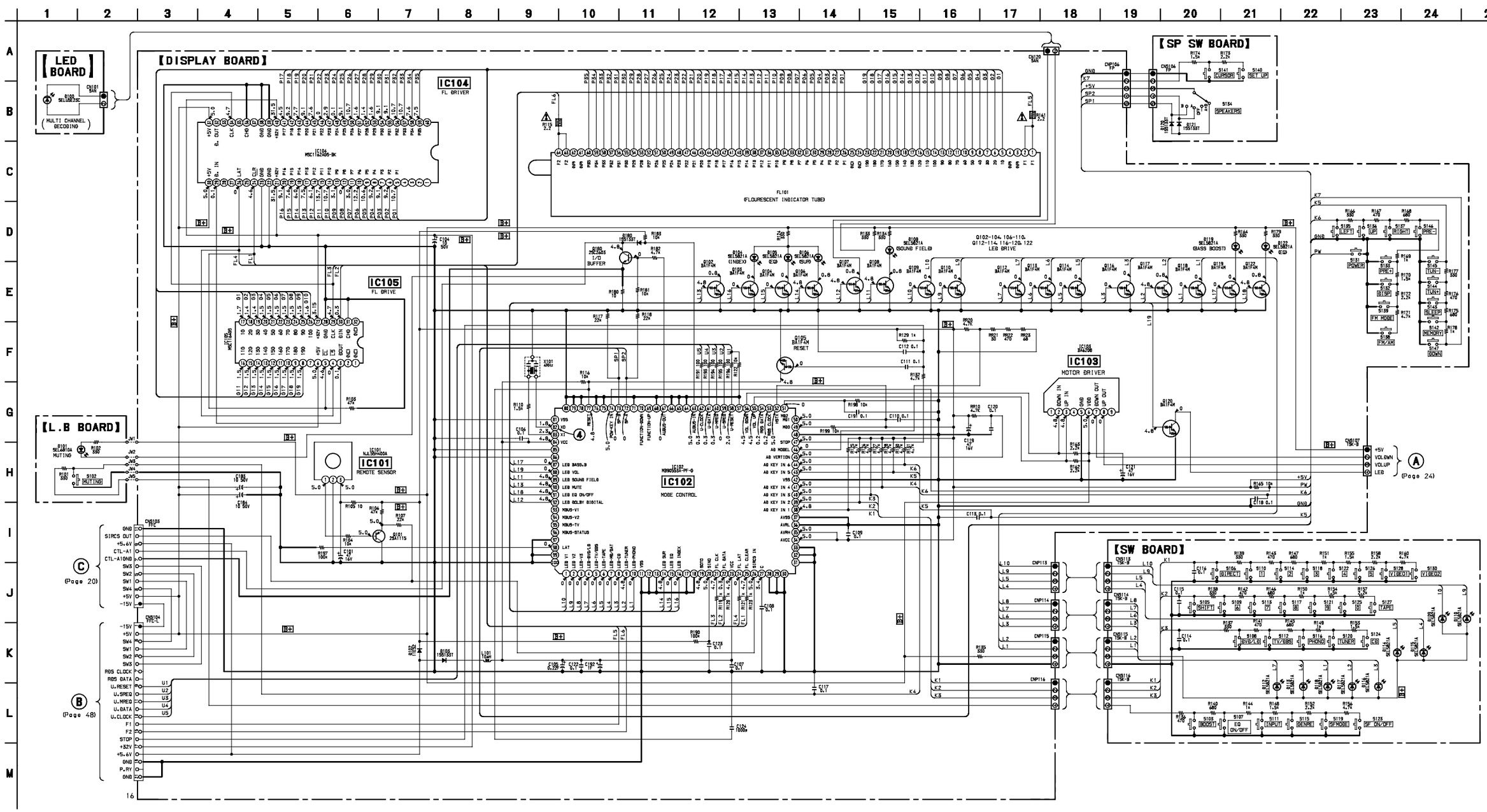
• **Semiconductor Location**

Ref. No.	Location
D100	H-2
D101	E-2
D102	B-13
D103	B-9
D104	C-12
D105	C-12
D106	C-12
D108	C-3
D109	J-6
D110	J-7
D111	J-7
D112	J-8
D113	J-9
D114	I-6
D115	I-7
D116	I-7
D117	I-8
D118	I-9
D119	D-3
D120	H-14
D121	H-14
D122	C-3
D180	B-3
IC101	C-4
IC102	D-6
IC103	C-1
IC104	D-8
IC105	C-7
Q101	C-4
Q102	B-4
Q103	B-11
Q104	B-11
Q105	C-4
Q106	B-11
Q107	B-6
Q108	B-4
Q109	B-11
Q110	B-11
Q111	B-12
Q112	B-12
Q113	B-12
Q114	B-12
Q115	B-12
Q116	B-12
Q117	B-13
Q118	B-13
Q119	B-4
Q120	B-4
Q122	B-3
Q180	B-3



3-13. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 8 for Waveform. • See page 51 for IC Pin Function Description. • See page 61 for IC Block Diagrams.



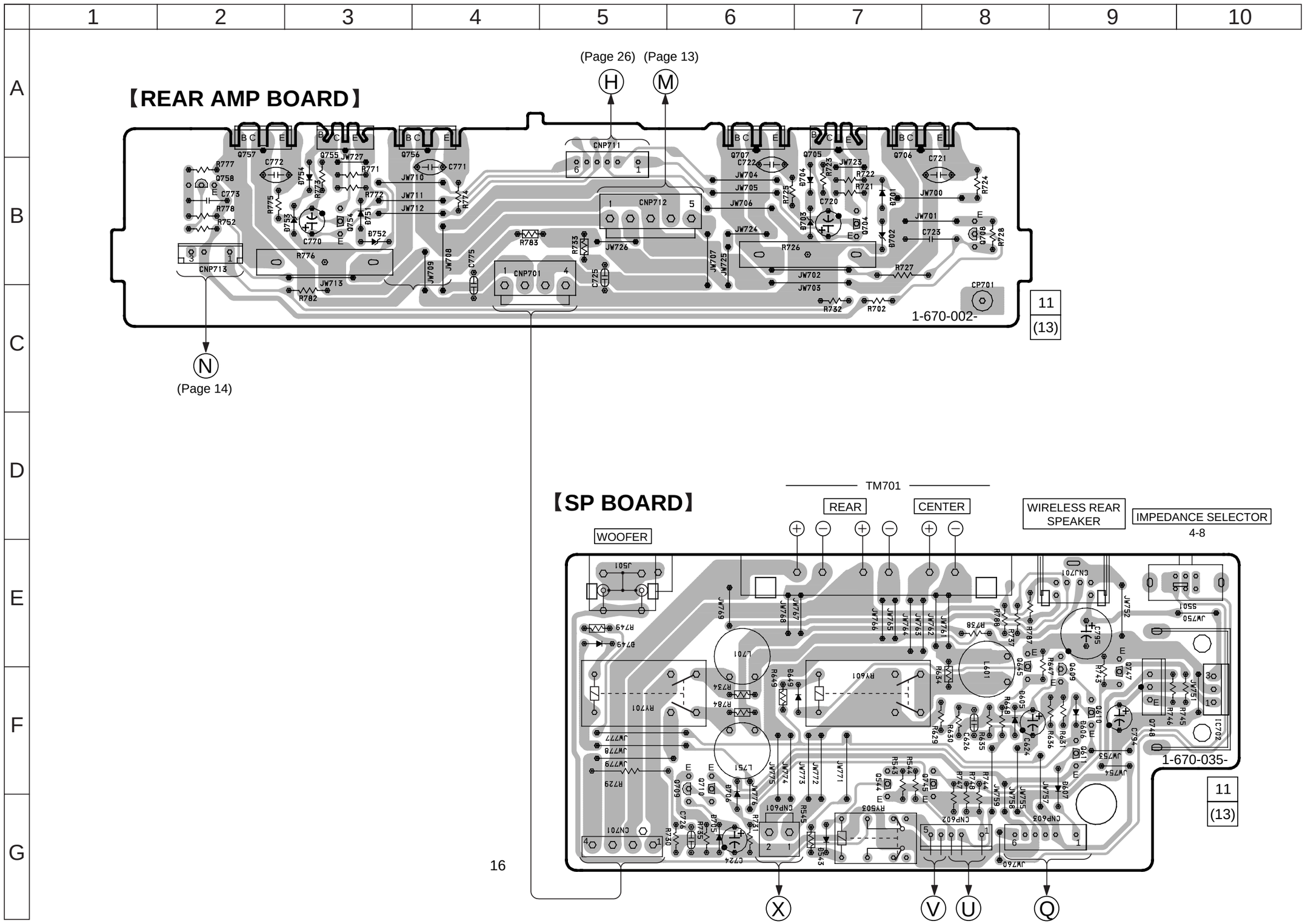
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

3-14. PRINTED WIRING BOARD — SPEAKER SECTION —

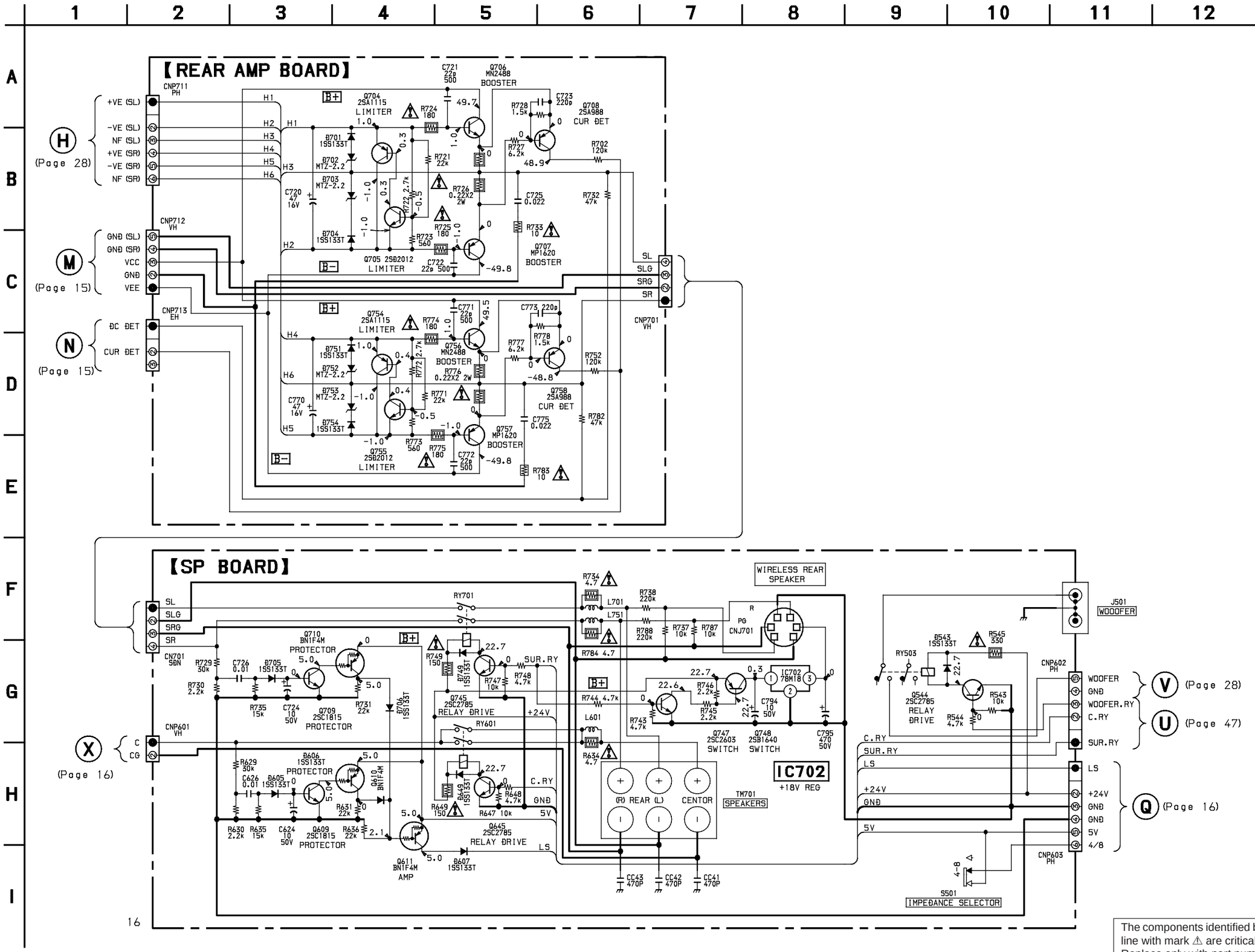
• See page 7 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D543	G-7
D605	F-8
D606	F-9
D607	F-12
D649	F-6
D701	B-7
D702	B-7
D703	B-7
D704	B-7
D705	G-6
D706	F-6
D749	E-5
D751	B-3
D752	B-3
D753	B-3
D754	B-3
IC702	F-10
Q544	F-7
Q609	E-9
Q610	F-9
Q611	F-9
Q645	E-8
Q704	B-7
Q705	B-7
Q706	B-7
Q707	B-6
Q708	B-8
Q710	F-6
Q745	F-6
Q747	E-9
Q748	E-9
Q754	B-3
Q755	A-3
Q756	A-4
Q757	A-2
Q758	B-2



3-15. SCHEMATIC DIAGRAM — SPEAKER SECTION —



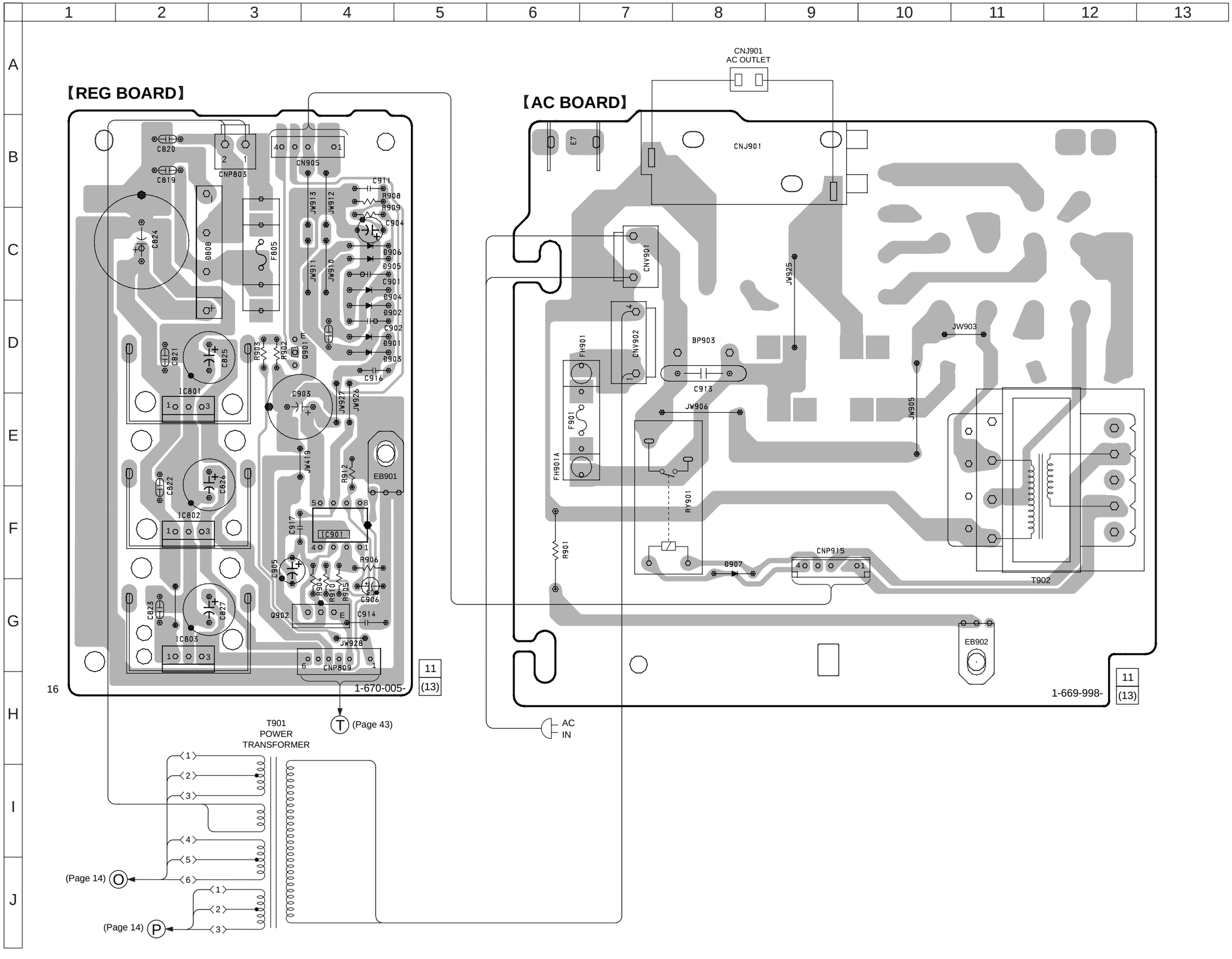
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

3-16. PRINTED WIRING BOARD — POWER SECTION —

• See page 7 for Circuit Boards Location.

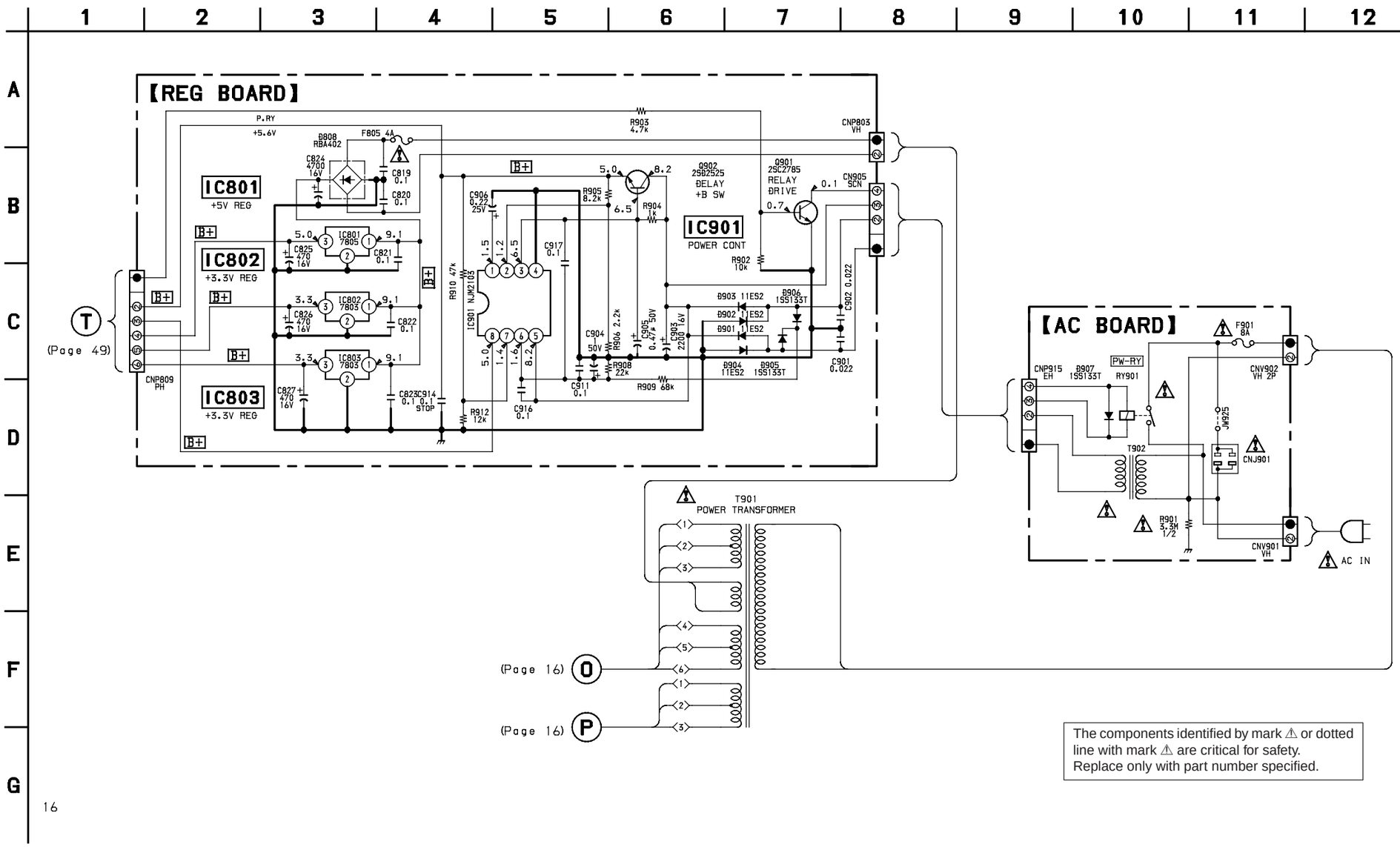
• **Semiconductor Location**

Ref. No.	Location
D808	C-3
D901	D-4
D902	D-4
D903	D-4
D904	C-4
D905	C-4
D906	C-4
D907	G-8
IC801	E-2
IC802	F-3
IC803	G-3
IC901	F-4
Q901	D-4
Q902	G-4



3-17. SCHEMATIC DIAGRAM — POWER SECTION —

• See page 61 for IC Block Diagrams.



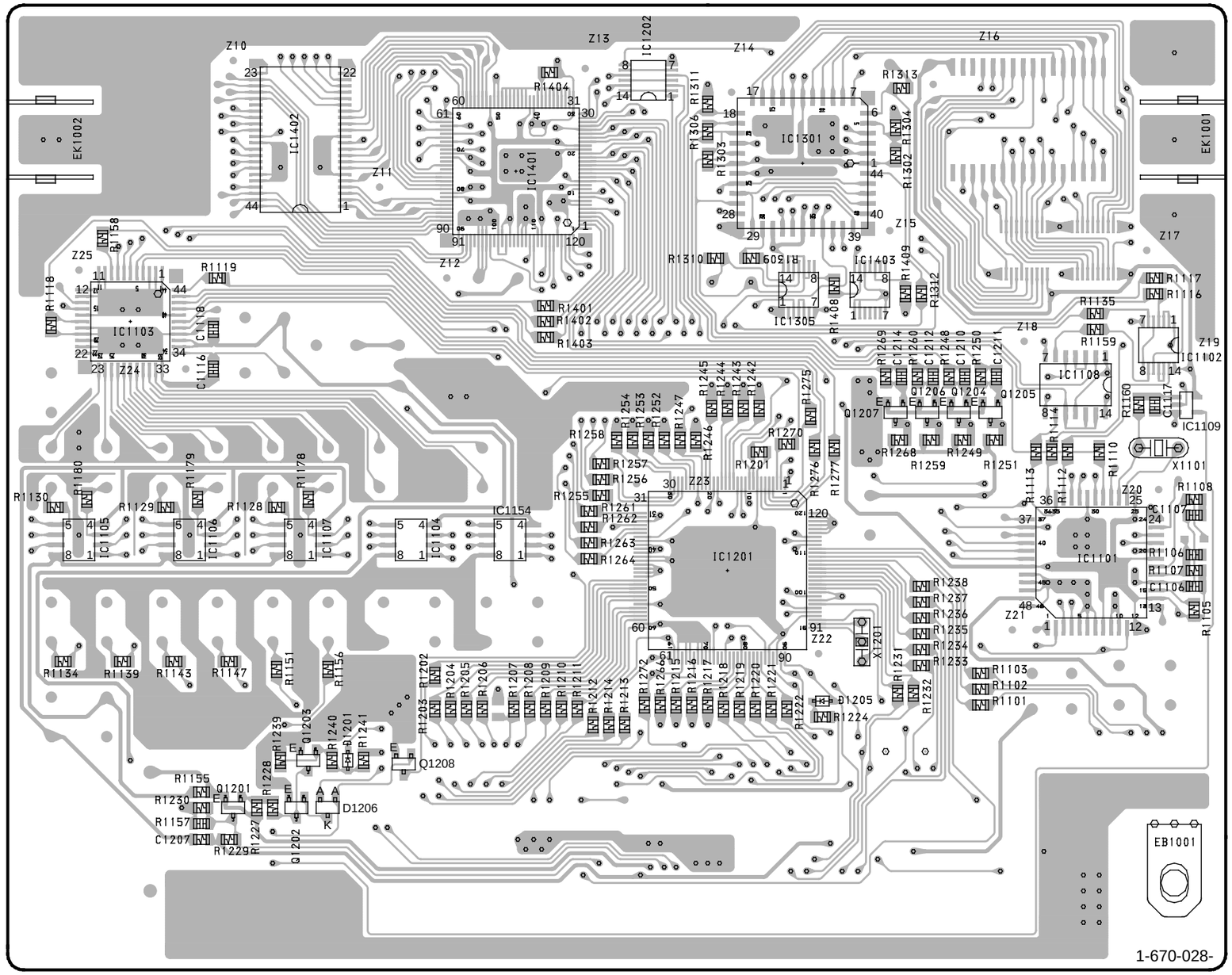
3-18. PRINTED WIRING BOARD — DIGITAL (SIDE A) SECTION —

• See page 7 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D1201	H-4
D1205	G-8
D1206	H-4
IC1005	D-13
IC1006	C-13
IC1007	B-13
IC1101	F-10
IC1102	E-11
IC1103	D-2
IC1104	F-4
IC1105	F-2
IC1106	F-3
IC1108	E-10
IC1109	E-11
IC1154	F-5
IC1201	F-7
IC1202	B-6
IC1301	C-8
IC1302	C-10
IC1303	D-9
IC1304	D-10
IC1305	D-7
IC1401	C-5
IC1402	C-3
IC1403	D-8
Q1201	H-3
Q1202	H-3
Q1203	H-3
Q1204	E-9
Q1205	E-9
Q1206	E-9
Q1207	E-8
Q1208	H-4

【DIGITAL BOARD】(SIDE A)



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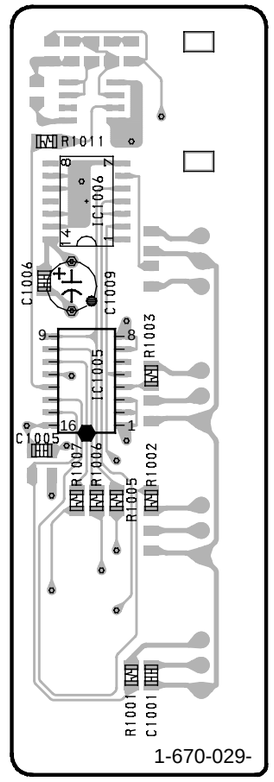
(13)

【D. IN/OUT BOARD】 (SIDE A)



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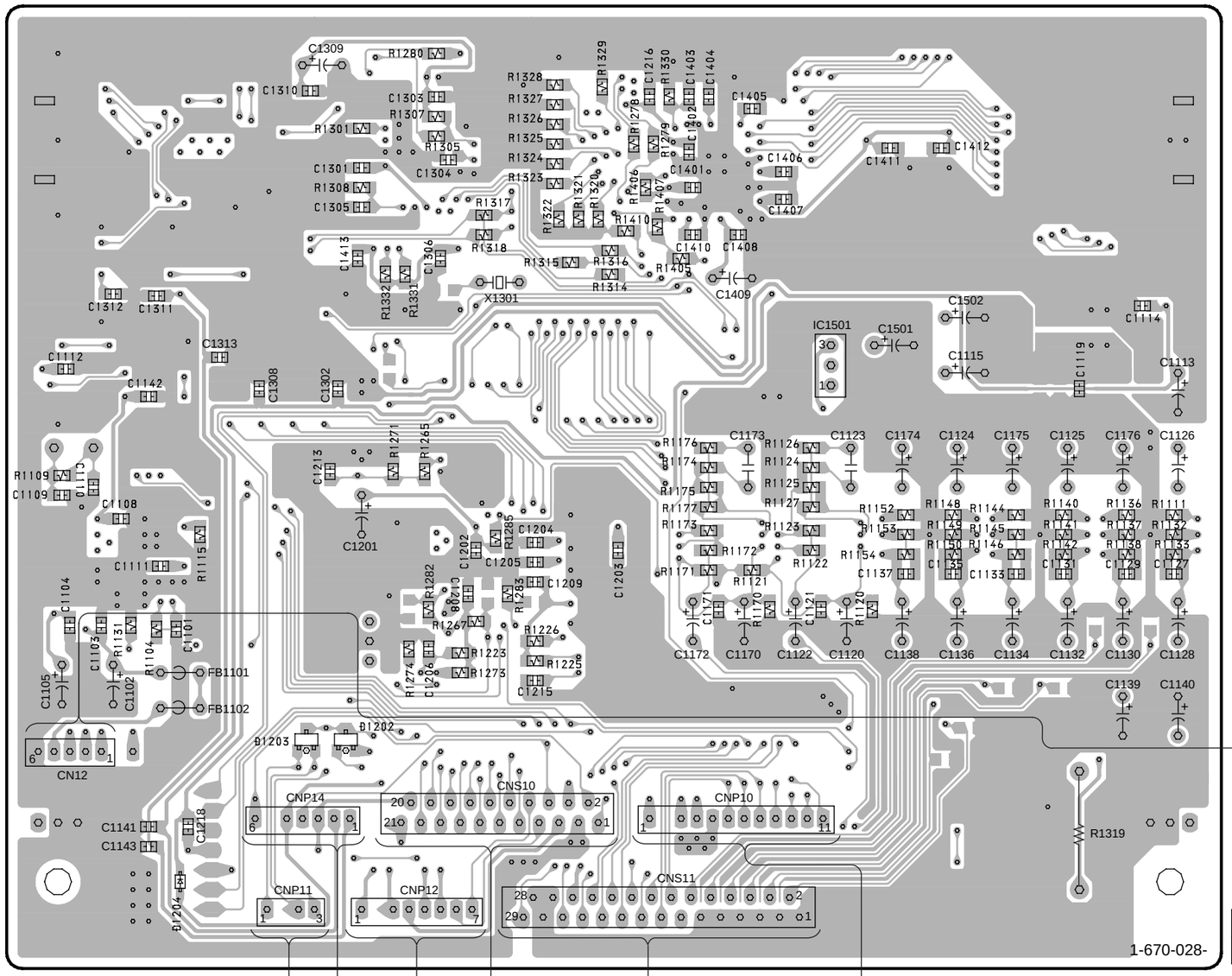
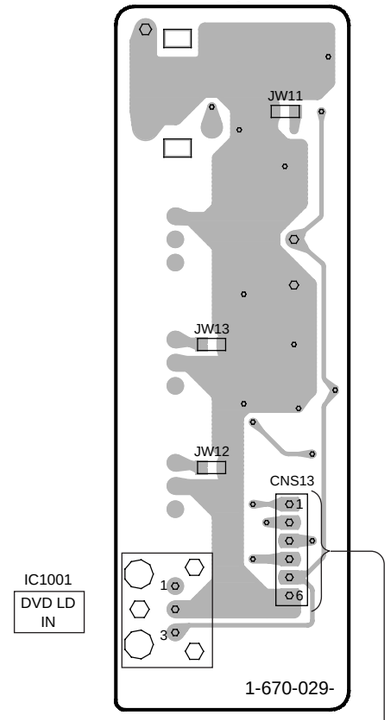
3-19. PRINTED WIRING BOARD — DIGITAL (SIDE B) SECTION —

• See page 7 for Circuit Boards Location.

【DIGITAL BOARD】(SIDE B)



【D. IN/OUT BOARD】
(SIDE B)



11
(13)

11
(13)

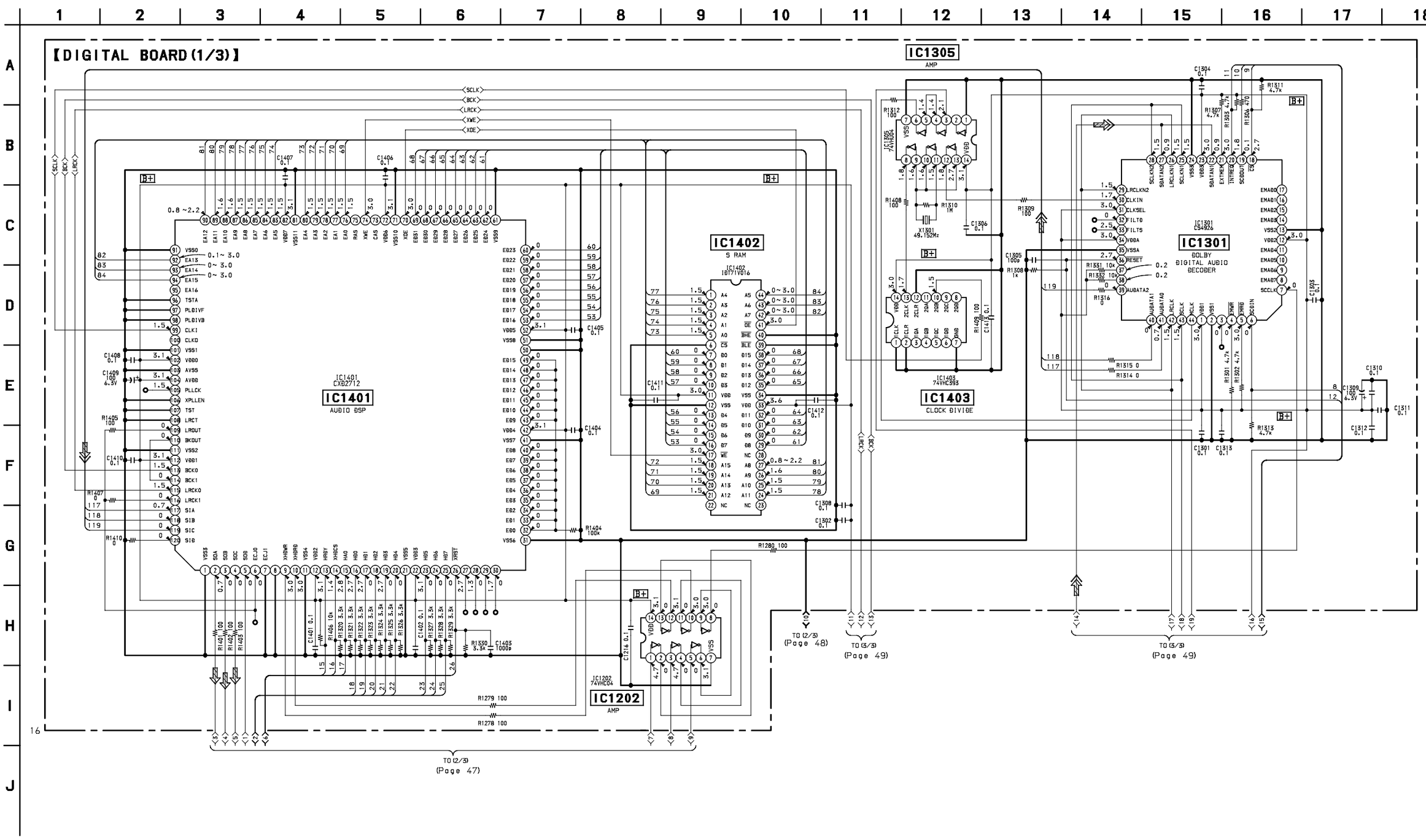
16

(U) (Page 34) (T) (Page 37) (L) (Page 14) (B) (Page 29) (G) (Page 26) (S) (Page 22)

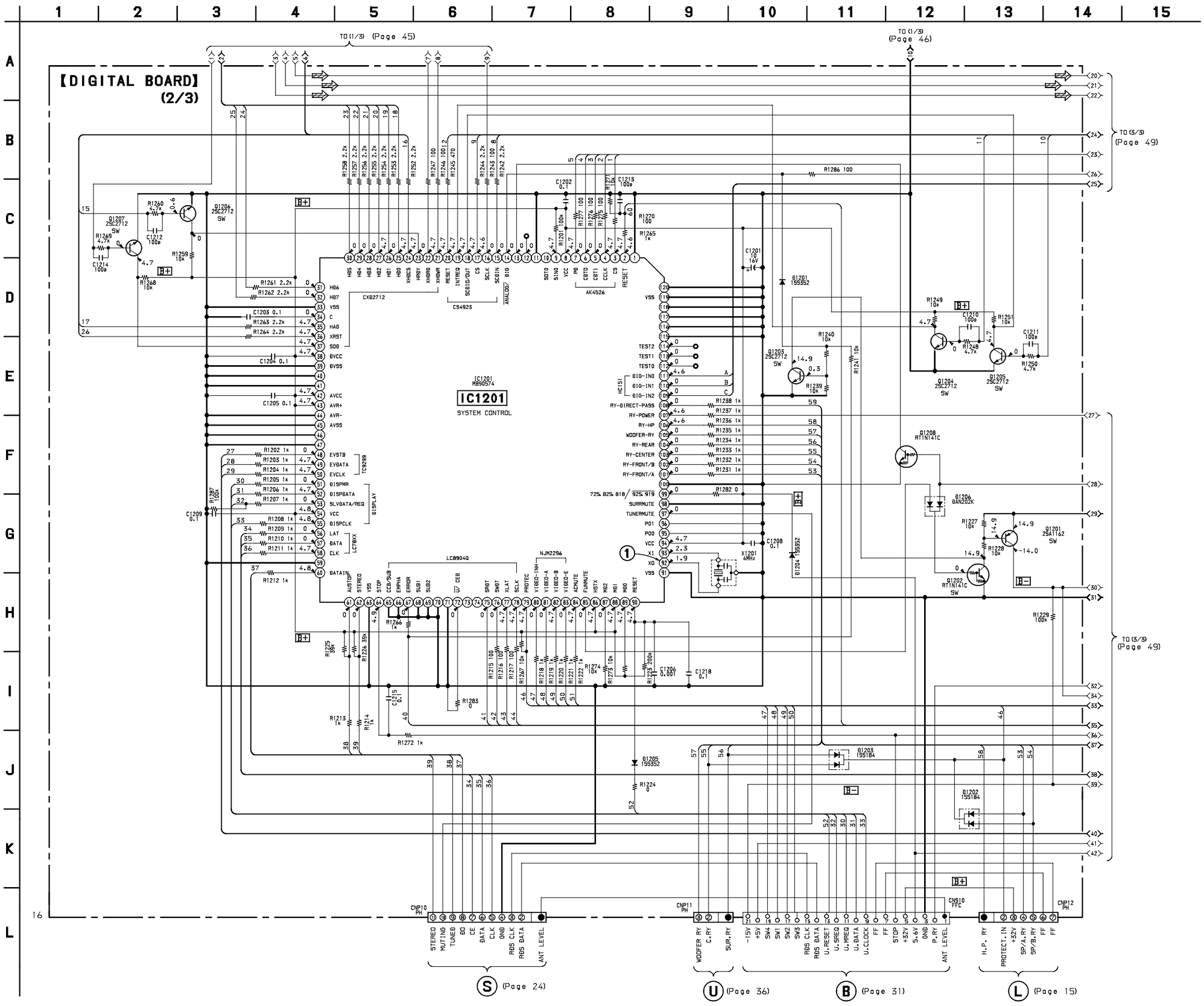
• **Semiconductor Location**

Ref. No.	Location
D1202	F-4
D1203	F-3
D1204	G-2
IC1001	E-11
IC1501	D-7

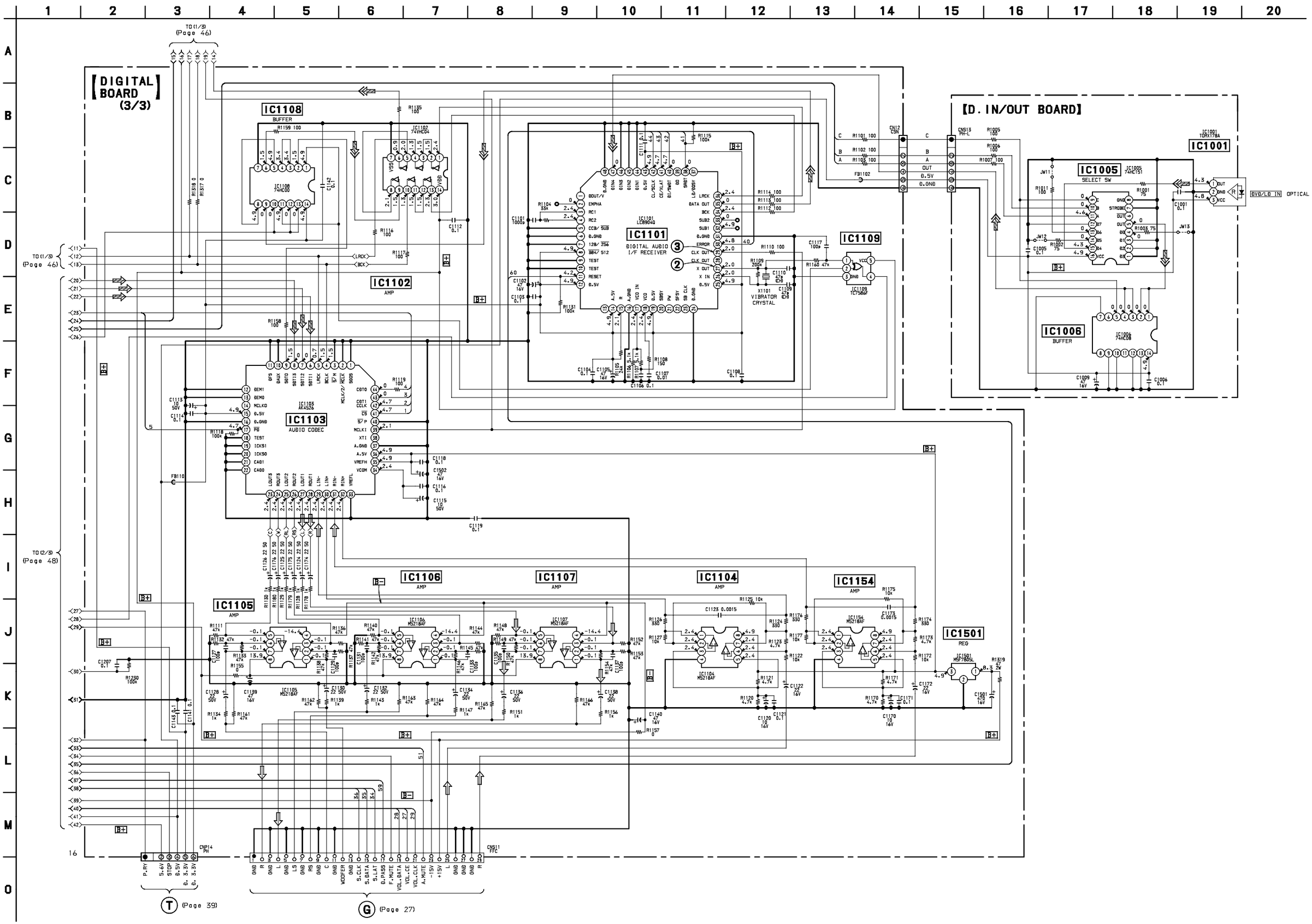
3-20. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/3)— • See page 41,43 for Printed Wiring Board. • See page 51 for IC Pin Functions. • See page 61 for IC Block Diagrams.



3-21. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/3)— • See page 41,43 for Printed Wiring Board. • See page 51 for IC Pin Functions. • See page 8 for Waveforms.



3-22. SCHEMATIC DIAGRAM — DIGITAL SECTION (3/3)— • See page 41,43 for Printed Wiring Board. • See page 51 for IC Pin Functions. • See page 8 for Waveforms. • See page 61 for IC Block Diagrams.



3-23. IC PIN FUNCTION DESCRIPTION
IC1103 AK4526 (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	SDOS	I	SDTO source select pin "L": internal ADC output, "H": DAUX input ORed with serial control register if P/$\overline{S}$ = "L" (Connected to Ground)
2	$\overline{MCLK}$	I	MCKO clock frequency select pin "L": MCLK, "H": MCLK/2. ORed with serial control register if P/$\overline{S}$ = "L" (Connected to Ground)
3	$\overline{S}$/M	I	Audio data master/slave mode select pin "L": slave mode, "H": master mode (Connected to Ground)
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to Ground)
11	DFS	I	Double speed sampling mode pin "L": normal speed, "H": double speed ORed with serial control register if P/$\overline{S}$ = "L" (Connected to Ground)
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if P/$\overline{S}$ = "L" (Connected to Ground)
14	MCKO	O	Master clock output pin (Not used)
15	D. 5V	—	Digital power supply pin
16	D. GND	—	Digital ground pin
17	$\overline{PD}$	I	Power-down & reset pin When "L", the AK4526 is powered-down and the control registers are reset to default state. If the state of P/$\overline{S}$, M/$\overline{S}$, CAD0-1 changes, then the AK4526 must be reset by $\overline{PD}$.
18	TEST	I	X'tal oscillator select/test mode pin "H": X'tal oscillator selected "L": External clock source selected "NC": If pin is floating then test mode is enabled. (Connected to Ground)
19	ICKS1	I	Input clock select 1 pin (Connected to Ground)
20	ICKS0	I	Input clock select 0 pin (Connected to Ground)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to Ground)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to Ground)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin

Pin No.	Pin Name	I/O	Description
31	RIN–	I	Rch analog negative input pin
32	RIN+	I	Rch analog positive input pin
33	VREFL	I	Negative voltage reference input pin, AVSS (Connected to Ground)
34	VCOM	O	Common voltage output pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREFH	I	Positive voltage reference input pin, AVDD
36	A. 5V	—	Analog power supply pin
37	A. GND	—	Analog ground pin
38	XTI	I	X'tal input pin (Not used)
39	MCLKI	I	External master clock input pin if XTS = "L"
40	$\overline{S}$/P	I	Parallel/serial select pin "L": serial control mode, "H": parallel control mode (Connected to Ground)
41	CS	I	Chip select pin in serial mode
42	CCLK	I	Control data clock pin in serial mode
43	CDTI	I	Control data input in serial mode
44	CDTO	O	Control data output pin in serial mode

If pins TEST, ICKS0, ICKS1, $\overline{PD}$, $\overline{S}$/P, DFS, DEM0, DEM1, CAD0, CAD1, $\overline{S}$/M, $\overline{MCLK}$, SDOS are not driven, then TEST, ICKS0, ICKS1, CAD0, CAD1, must be tied to either AVSS or AVDD. $\overline{PD}$, $\overline{S}$/P, DFS, DEM0, DEM1, $\overline{S}$/M, $\overline{MCLK}$, SDOS must be tied to either DVSS or DVDD.

IC1401 CXD2712R (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground
2 – 5	SOA – SOD	O	Serial data output
6, 7	ECJ0, ECJ1	I	Conditional jump input terminal (7pin Connected to Ground)
8	—	NC	No connection
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	VSS4	—	Ground
12	VDD2	—	+3.3V
13	HRDY	O	HCIF ready signal Open drain
14	XHDCS	I	HCIF chip select
15	HA0	I	HCIF address input
16 – 20	HD0 – HD4	I/O	HCIF data input/output
21	VSS5	—	Ground
22	VDD3	—	+3.3V
23 – 25	HD5 – HD7	I/O	HCIF data input/output
26	XRST	I	Reset input “L”: active
27 – 30	FGP0 – FGP3	O	Test data output
31	VSS6	—	Ground
32 – 40	ED0 – ED8	I/O	External RAM data input/output
41	VSS7	—	Ground
42	VDD4	—	+3.3V
43 – 49	ED9 – ED15	I/O	External RAM data input/output
50	TSTD	I	Test data input “L” = normal “H” = test (Connected to Ground)
51	VSS8	—	Ground
52	VDD5	—	+3.3V
53 – 60	ED16 – ED23	I/O	External RAM data input/output
61	VSS9	—	Ground
62 – 69	ED24 – ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output enable
71	VSS10	—	Ground
72	VDD6	—	+3.3V
73	CAS	O	External RAM column address strobe (Not used)
74	XWE	O	External RAM write enable (Not used)
75	RAS	O	External RAM raw address strobe
76 – 80	EA0 – EA4	I/O	External RAM address output/test data input
81	VSS11	—	Ground
82	VDD7	—	+3.3V
83 –89	EA5 – EA11	I/O	External RAM address output/test data input
90	EA12	O	External RAM address output

Pin No.	Pin Name	I/O	Description
91	VSS0	—	Ground
92 – 94	EA13 – EA15	O	External RAM address output
95	EA16	O	Not used
96	TSTA	I	Test data input “L” = normal “H” = test (Connecting to Ground)
97	PLDIVF	I	PLL input frequency select “L” = 256Fs “H” = 128Fs (Connecting to Ground)
98	PLDIVB	O	PLL output frequency select “L” = 768Fs “H” = 1024Fs (Connecting to Ground)
99	CLKI	I	Master clock input
100	CLKO	O	Master clock output (Not used)
101	VSS1	—	Ground
102	VDD0	—	+3.3V
103	AVSS	—	Ground for PLL cell
104	AVDD	—	VDD for PLL cell
105	PLLCK	I/O	PLL output/test clock input
106	XPLLEN	I	PLL cell oscillation enable “L” oscillation enable “H” oscillation stop (Connecting to Ground)
107	TST	I	Test data input “L” = normal “H” = test (Connecting to Ground)
108	LRCT	I	Frequency counter input (Connecting to Ground)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	VSS2	—	Ground
112	VDD1	—	+3.3V
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 – 120	SIA – SID	I	Serial data input

IC1101 CAD8495AQ (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	DOUT/V	O	EIAJ data and parity flag output terminal (Not used)
2	EMPHA	O	Emphasis monitor output terminal (“H” = ON)
3	RC1	I	Input terminal for RC generator/oscillator
4	RC2	O	Output terminal for RC generator/oscillator
5	CCB/$\overline{\text{SUB}}$	I	Microprocessor I/F select input terminal (CCB: H, @SUB@: L) (Connecting to Ground)
6	D. GND	—	Digital Ground
7	CLKMD	O	Clock output select terminal (“L” = 256fs, “H” = 128fs) (Connecting to Ground)
8	CLK	I	Clock input select terminal (“H” = 512fs, “L” = 384fs)
9	TEST1	I	Test terminal (normally ground)
10	TEST2	I	Test terminal (normally ground)
11	RESET	I	Reset input terminal
12	D. V_{DD}	—	Digital power supply
13	NC	—	No connect
14	A. V_{DD}	—	Analog power supply
15	R	I	Input terminal for VCO generator band adjustment
16	A. GND	—	Analog Ground
17	VCO IN	I	Input terminal for VCO self running frequency set
18	VCO	O	External LPF for PLL is connected to this terminal
19	D. V_{DD}	—	Digital power supply
20	SBSY	O	CD subcode I/F and block sync output terminal (Not used)
21	PW	O	CD subcode I/F and data output terminal (Not used)
22	SFSY	O	CD subcode I/F and frame sync output terminal (Not used)
23	SBCK	I	CD subcode I/F and shift clock input terminal for data reading (Not used)
24	D. GND	—	Digital Ground
25	D. V_{DD}	—	Digital power supply
26	XIN	I	Crystal oscillator input terminal
27	XOUT	O	Crystal oscillator output terminal
28	CLK OUT1	O	VCO and crystal oscillator clock output terminal (Not used)
29	CLK OUT2	O	256fs or 128fs clock output terminal (Select CLKMD terminal)
30	ERROR	O	Error mute output terminal
31	D. GND	—	Digital Ground
32	SUB1	O	Sampling frequency monitor output terminal
33	SUB2	O	Sampling frequency monitor output terminal
34	BCLK	O	Bit clock output terminal
35	DATA OUT	O	Audio data output terminal
36	LRCK	O	L, R clock output terminal (L-ch: “H”, R-ch: “L”)
37	LD/DQSY	O	Microprocessor I/F and subcode Q data sync output terminal (Not used)
38	SRDT	O	Microprocessor I/F. When CCB/$\overline{\text{SUB}}$ is “L”, data output terminal (3-state output)
39	DO	O	Microprocessor I/F. When CCB/$\overline{\text{SUB}}$ is “H”, data output terminal (high level open drain output) (Not used)
40	DI/SWDT	I	Microprocessor I/F. Data input terminal
41	CE/XLAT	I	Microprocessor I/F. Chip enable/latch input terminal
42	CL/SCLK	I	Microprocessor I/F. Clock input terminal
43	D. V_{DD}	—	Digital power supply
44	DIN1	I	Amplifier integrate data input terminal (Connecting to Ground)
45	DIN2	I	Amplifier integrate data input terminal (Connecting to Ground)
46	DIN3	I	Amplifier integrate data input terminal (Connecting to Ground)
47	DIN4	I	Amplifier integrate data input terminal
48	D. GND	—	Digital Ground

IC1201 MB90574PFV-G-161-BND (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	—	—	Not used (Connected to Ground)
2	RESET	O	RF demodulator/DIR reset
3	CS	O	To AK4526 chip select
4	CCLK	O	To AK4526 clock
5	CDT1	I	To AK4526 data input
6	CDTO	O	To AK4526 data output
7	PD	O	To AK4526 reset
8	VCC	—	Power supply +5 V
9	SIN0	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	—	—	Not used (Connected to Ground)
12	—	—	Not used (Not connected, open)
13	—	—	Not used (Not connected, open)
14	ANA/DIG	O	Analog/digital selection (74HC157)
15	SCDIN	I	To CS4926 data input
16	SDLK	O	To CS4926 clock
17	CS	O	To CS4926 chip select
18	SCDIO/OUT	O	To CS4926 SPI data out
19	INTREQ	I	To CS4926 interrupt request
20	RESET	O	To CS4926 reset
21	XHDWR	O	To CXD2712 data write
22	XHDRD	O	To CXD2712 data read
23	HRDY	I	To CXD2712 ready
24	XHDCS	O	To CXD2712 chip select
25	HD 0	O	To CXD2712 data I/O
26	HD 1	O	To CXD2712 data I/O
27	HD 2	O	To CXD2712 data I/O
28	HD 3	O	To CXD2712 data I/O
29	HD 4	O	To CXD2712 data I/O
30	HD 5	O	To CXD2712 data I/O
31	HD 6	O	To CXD2712 data I/O
32	HD 7	O	To CXD2712 HD7
33	VSS	—	Ground (Connected to Ground)
34	C	—	External power regulator capacitor 0.1µ is connected to this terminal.
35	HA0	O	To CXD2712 address
36	XRST	O	To CXD2712 reset
37	SOD	I	To CXD2712 LFE detection
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital Ground (Connected to Ground)
40	—	—	Not used (Connected to Ground)
41	—	—	Not used (Connected to Ground)
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground (Connected to Ground)
45	AVSS	—	Ground (Connected to Ground)
46	—	—	Not used (Connected to Ground)
47	—	—	Not used (Connected to Ground)
48	EVSTB	O	To TC9299 strobe
49	EVDATA	O	To TC9299 data
50	EVCLK	O	To TC9299 clock

Pin No.	Pin Name	I/O	Description
51	DISPMR	I	Display master request (Connected to MB90553 U.MREQ)
52	DISPDATA	I	Display data (Connected to MB90553 U.DATA)
53	SLV DTA/REQ	O	Slave data/request (Connected to MB90553 U.SREQ)
54	VCC	—	Power supply +5 V
55	DISP CLK	I	Display clock (Connected to MB90553 U.CLOCK)
56	LAT	O	To tuner TM301 latch
57	DATA	O	To tuner TM301 data
58	CLK	O	To tuner TM301 clock
59	—	—	Not used (Connected to Ground)
60	DATA IN	I	PLL data input
61	AUSTOP	I	Auto stop input
62	STEREO	I	Stereo input
63	VSS	—	Ground (Connected to Ground)
64	STOP	I	AC power check
65	CCB/SUB	I	Not used (Connected to Ground)
66	EMPHA	I	Not used (Connected to Ground)
67	ERROR	O	Error output to CXD8495AQ
68	SUB 1	I	Not used (Connected to Ground)
69	SUB 2	I	Not used (Connected to Ground)
70	—	—	Not used (Connected to Ground)
71	—	—	Not used (Connected to Ground)
72	$\overline{U}$/CED	I	U or CED (STR only)
73	—	—	Not used (Not connected, open)
74	—	—	Not used (Not connected, open)
75	SRDT	I	To CXD8495AQ C-bit
76	SWDT	O	To CXD8495AQ data
77	XLAT	O	To CXD8495AQ latch
78	SCLK	O	To CXD8495AQ clock
79	PROTEC	I	Protector input
80	VIDEO-INH	O	Video output inhibit
81	VIDEO-A	O	To NJM2296 video select A
82	VIDEO-B	O	To NJM2296 video select B
83	VIDEO-E	O	To NJM2296 video select E
84	ACMUTE	O	IC muting
85	FUNMUTE	O	Function muting
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD 2	—	MD2 (To MB90553 MD2)
88	MD 1	—	MD1 (Connect to power supply)
89	MD 0	—	MD0 (To MB90553 MD0)
90	RESET	I	Reset (Connected to MB90553 U.RESET)
91	VSS	—	Ground (Connected to Ground)
92	X 0	—	External ceramic filter 4 MHz is connected to this terminal
93	X 1	—	External ceramic filter 4 MHz is connected to this terminal
94	VCC	—	Power supply +5 V
95	P 00	I	Flash memory rewrite (Connected to Ground)
96	P 01	I	Flash memory rewrite (Connected to Ground)
97	TUNER MUT	O	Tuner muting
98	SURR MUT	O	Surround muting (Connected to Ground)
99	7E/8E	I	Not used (Connected to Ground)
100	—	—	Not used (Connected to Ground)

Pin No.	Pin Name	I/O	Description
101	RY-FRONT/A	O	Front speaker A relay
102	RY-FRONT/B	O	Front speaker B relay
103	RY-CENTER	O	Center speaker relay
104	RY-REAR	O	Rear speaker relay
105	WOOFER-RY	O	Sub Woofer relay
106	RY-HP	O	Head phone relay
107	RY-POWER	O	Power relay
108	RY-DIR-PASS	O	Direct pass relay
109	DIG-IN 2	I	Digital input select 2 (74HC151)
110	DIG-IN 1	I	Digital input select 1 (74HC151)
111	DIG-IN 0	I	Digital input select 0 (74HC151)
112	TEST 0	—	Test port 0 (Not connected, open)
113	TEST 1	—	Test port 1 (Not connected, open)
114	TEST 2	—	Test port 2 (Not connected, open)
115	—	—	Not used (Connected to Ground)
116	—	—	Not used (Connected to Ground)
117	—	—	Not used (Connected to Ground)
118	—	—	Not used (Connected to Ground)
119	VSS	—	Ground (Connected to Ground)
120	—	—	Not used (Connected to Ground)

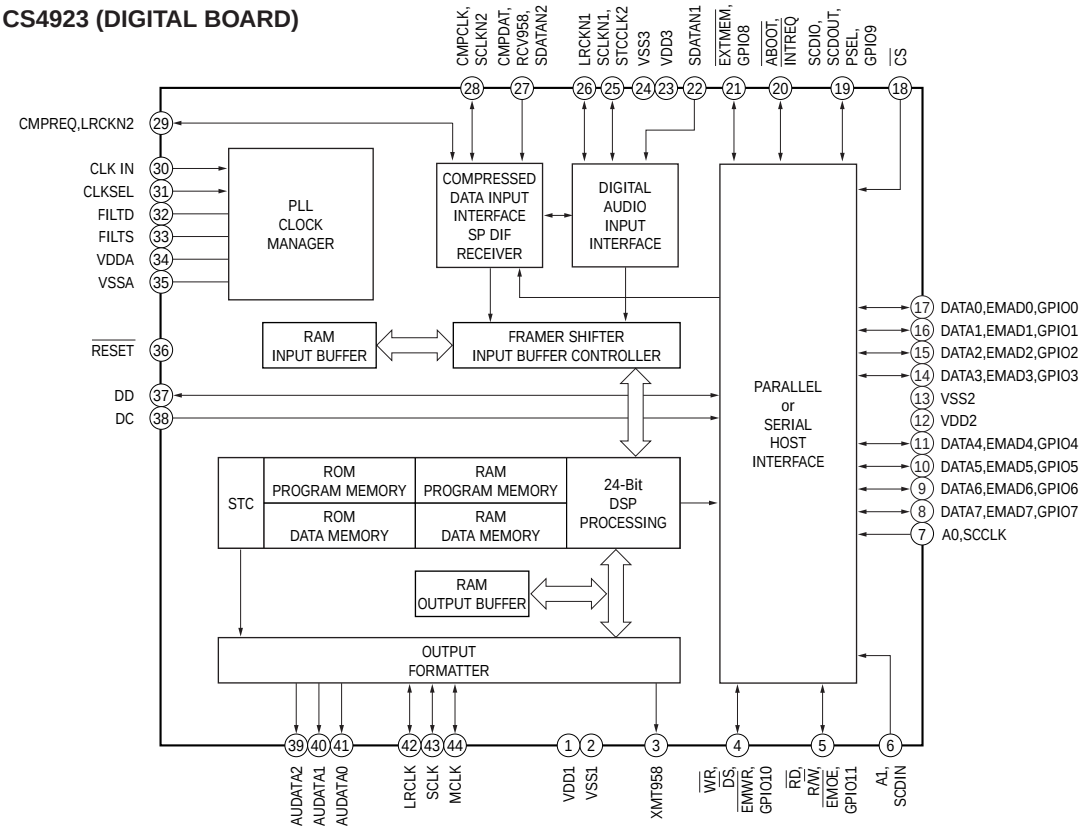
IC102 MB90553PF-G-131-BND (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	LED V1	O	VIDEO 1 VISUAL display data output to LED
2	LED V2	O	VIDEO 2 AUDIO display data output to LED
3	LED V3	O	VIDEO 3 VISUAL display data output to LED
4	LED-DVD/LD	O	DVD/LD AUDIO display data output to LED
5	LED-TV/DBS	O	DVD/LD VISUAL display data output to LED
6	LED-TAPE	O	TV/DBS AUDIO display data output to LED
7	LED-MD/DAT	O	TV/DBS VISUAL display data output to LED
8	LED-CD	O	TAPE display data output to LED
9	LED-TUNER	O	MD/DAT display data output to LED
10	LED-PHONO	O	CD display data output to LED
11	VSS	—	Ground (Connected to Ground)
12	—	—	Not used. (Connected to Ground)
13	—	—	Not used. (Connected to Ground)
14	LED SUR	O	CURSOR MODE SURROUND display data output to LED
15	LED EQ	O	CURSOR MODE EQUIPMENT display data output to LED
16	LED INDEX	O	CURSOR MODE INDEX display data output to LED
17	—	—	Not used. (Connected to Ground)
18	—	—	Not used. (Connected to Ground)
19	SOT0	O	UART data output to rewrite flash memory
20	SIN0	I	UART data intput to rewrite flash memory
21	FL CLK	O	Clock output to flourescent display tube
22	FL DATA	O	Data output to flourescent display tube
23	VCC	—	Power supply +5 V
24	FL LAT	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	SIRCS IN	I	SIRCS input
27	C	—	External power regulator capacitor 0.1µ is connected to this terminal.
28	—	—	Not used (Connected to Ground)
29	—	—	Not used (Connected to Ground)
30	—	—	Not used (Connected to Ground)
31	—	—	Not used (Connected to Ground)
32	—	—	Not used (Connected to Ground)
33	—	—	Not used (Connected to Ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to power supply +5 V)
36	AVRL	—	SVRL (Connected to Ground)
37	AVSS	—	Ground (Connected to Ground)
38	AD KEY IN 1	I	Key input 1
39	AD KEY IN 2	I	Key input 2
40	AD KEY IN 3	I	Key input 3
41	AD KEY IN 4	I	Key input 4
42	VSS	—	Ground (Connected to Ground)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD VERSION	I	Version input
46	AD MODEL	I	Model input
47	STOP	I	Stop input
48	—	—	Not used (Connected to Ground)
49	MD 0	I	MD 0 (To MD0 of MB90574)
50	MD 1	I	MD 1 (Connected to power supply +5 V)

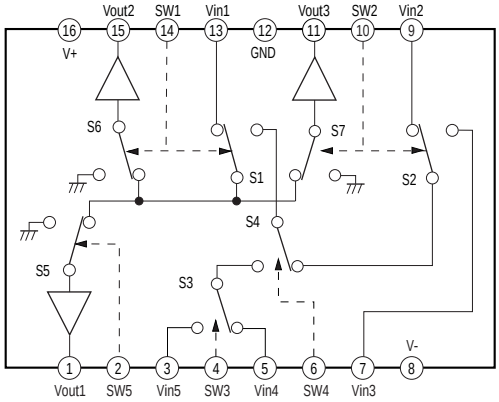
Pin No.	Pin Name	I/O	Description
51	MD 2	I	MD 2 (To MD2 of MB90574)
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up data output
56	VOL DOWN	O	Volume down data output
57	—	—	Not used (Connected to Ground)
58	U-RESET	O	Reset output (Connected to MB90574 RESET)
59	U-SREQ	I	Slave request and data input (Connected to MB90574 SLV DATA/REQ)
60	U-MREQ	O	Master request output (Connected to MB90574 DISPMR)
61	U-DATA	O	Master data output (Connected to MB90574 DISP DATA)
62	U-CLOCK	O	Master clock output (Connected to MB90574 DISPCLK)
63	AUBUS-IN	I	Audio bus input
64	—	—	Not used (Connected to Ground)
65	—	—	Not used (Connected to Ground)
66	—	—	Not used (Connected to Ground)
67	AUBUS-OUT	O	Audio bus output
68	—	—	Not used (Connected to Ground)
69	FUNCTION-UP	I	Function encoder up input
70	FUNCTION-DW	I	Function encoder down input
71	—	—	Not used (Connected to Ground)
72	SP-A	I	Speaker A selector switch input
73	SP-B	I	Speaker B selector switch input
74	POW-KEY IN	I	Power key input
75	—	—	Not used (Connected to Ground)
76	—	—	Not used (Connected to Ground)
77	RESET	I	Reset (Display MCU)
78	—	—	Not used (Connected to Ground)
79	—	—	Not used (Connected to Ground)
80	—	—	Not used (Connected to Ground)
81	VSS	—	Ground (Connected to Ground)
82	X0	—	External ceramic filter 4 MHz is connected to this terminal
83	X1	—	External ceramic filter 4 MHz is connected to this terminal
84	VCC	—	Power supply +5 V
85	—	—	Not used. (Connected to Ground)
86	—	—	Not used. (Connected to Ground)
87	LED BASS. B	O	BASS. B display data output to LED
88	LED VOL	O	VOLUME display data output to LED
89	LED SOUND FIELD	O	SOUND FIELD display data output to LED
90	LED MUTE	O	MUTE display data output to LED
91	LED EQ ON/ OFF	O	EQ ON/OFF display data output to LED
92	LED DOLBY DIGITAL	O	DOLBY/DIGITAL display data output to LED
93	MBUS-V1	I	V1 input from MBUS
94	MBUS-V 2	I	V2 input from MBUS
95	MBUS-TV	I	TV input from MBUS
96	MBUS-STATUS	I	STATUS input from MBUS
97	—	—	Not used. (Connected to Ground)
98	LAT	O	Learning microprocessor latch output
99	—	—	Not used. (Connected to Ground)
100	—	—	Not used. (Connected to Ground)

3-24. IC BLOCK DIAGRAMS

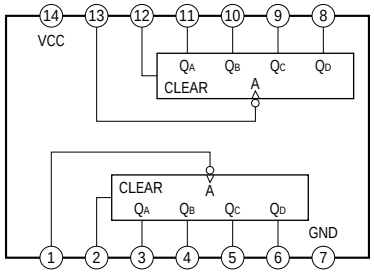
IC1301 CS4923 (DIGITAL BOARD)



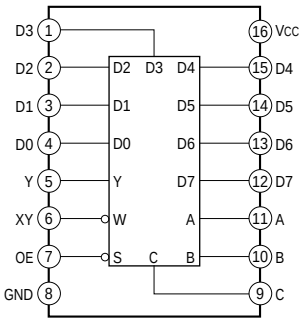
IC201 NJM2296D (VIDEO BOARD)



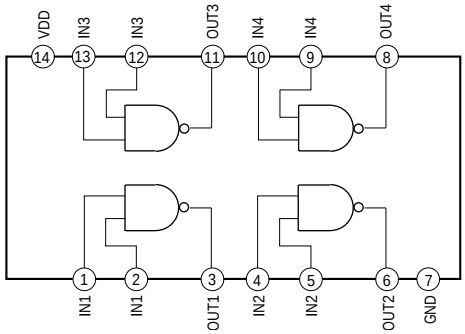
IC1403 TC74VHC393FT(EL) (DIGITAL BOARD)



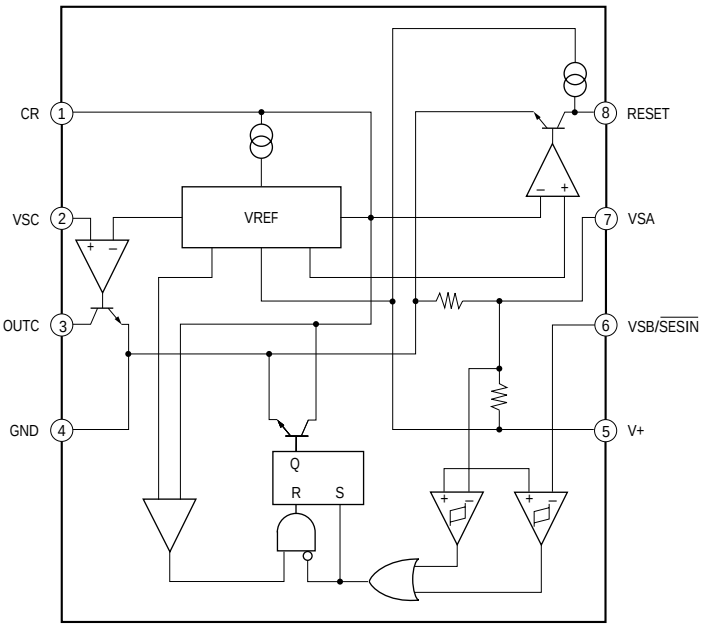
IC1005 TC74HC151AF (EL) (D. IN/OUT BOARD)



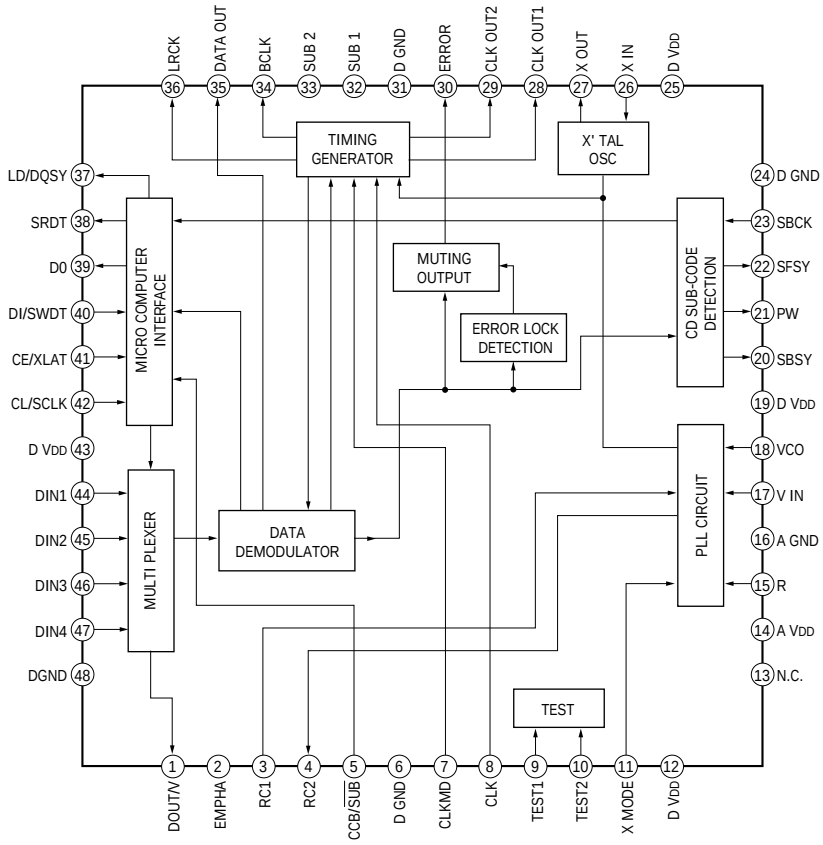
IC1108 MC74HC00AF (DIGITAL BOARD)



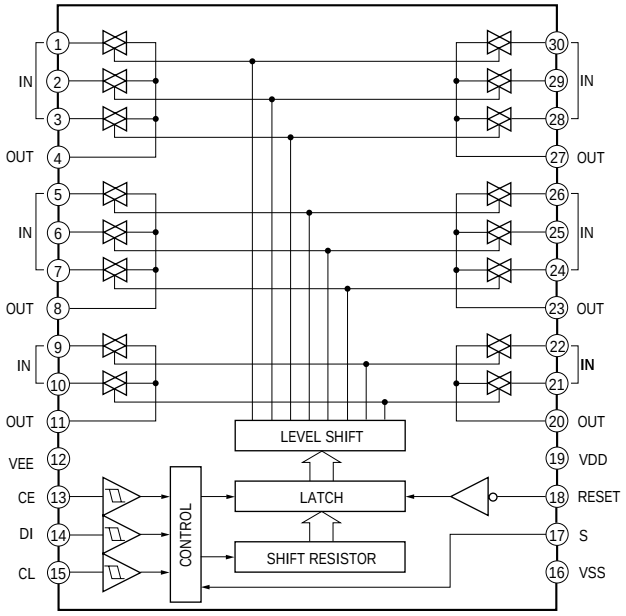
IC901 NJM2103D (REG BOARD)



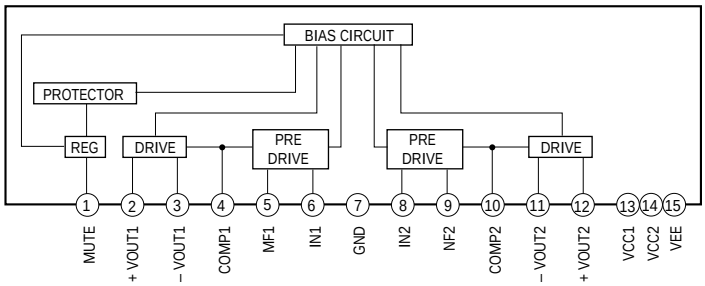
IC1101 CXD8495AQ (DIGITAL BOARD)



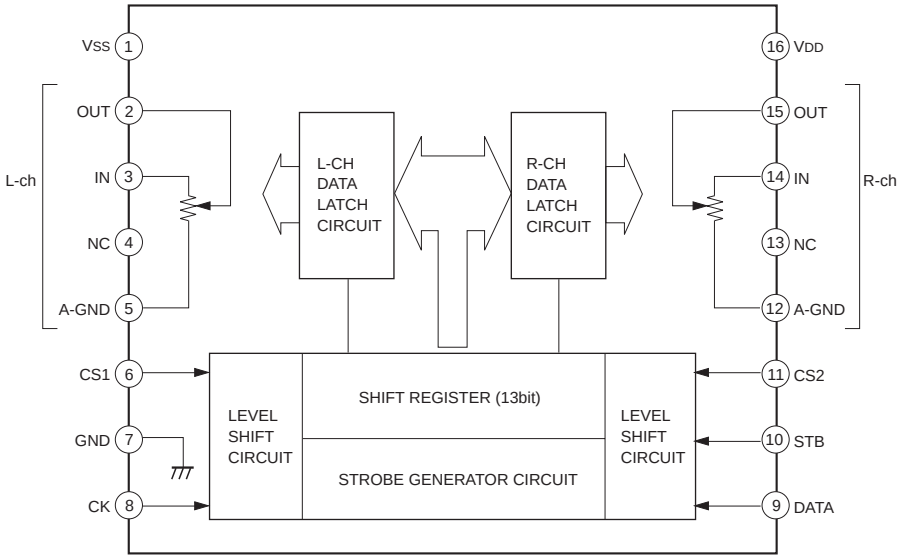
IC301 LC7822 (INPUT BOARD)



IC501, IC601, IC701 uPC2581V (INPUT BOARD)



IC414, IC415, IC416 TC9299P (INPUT BOARD)



SECTION 4
EXPLODED VIEWS

NOTE:

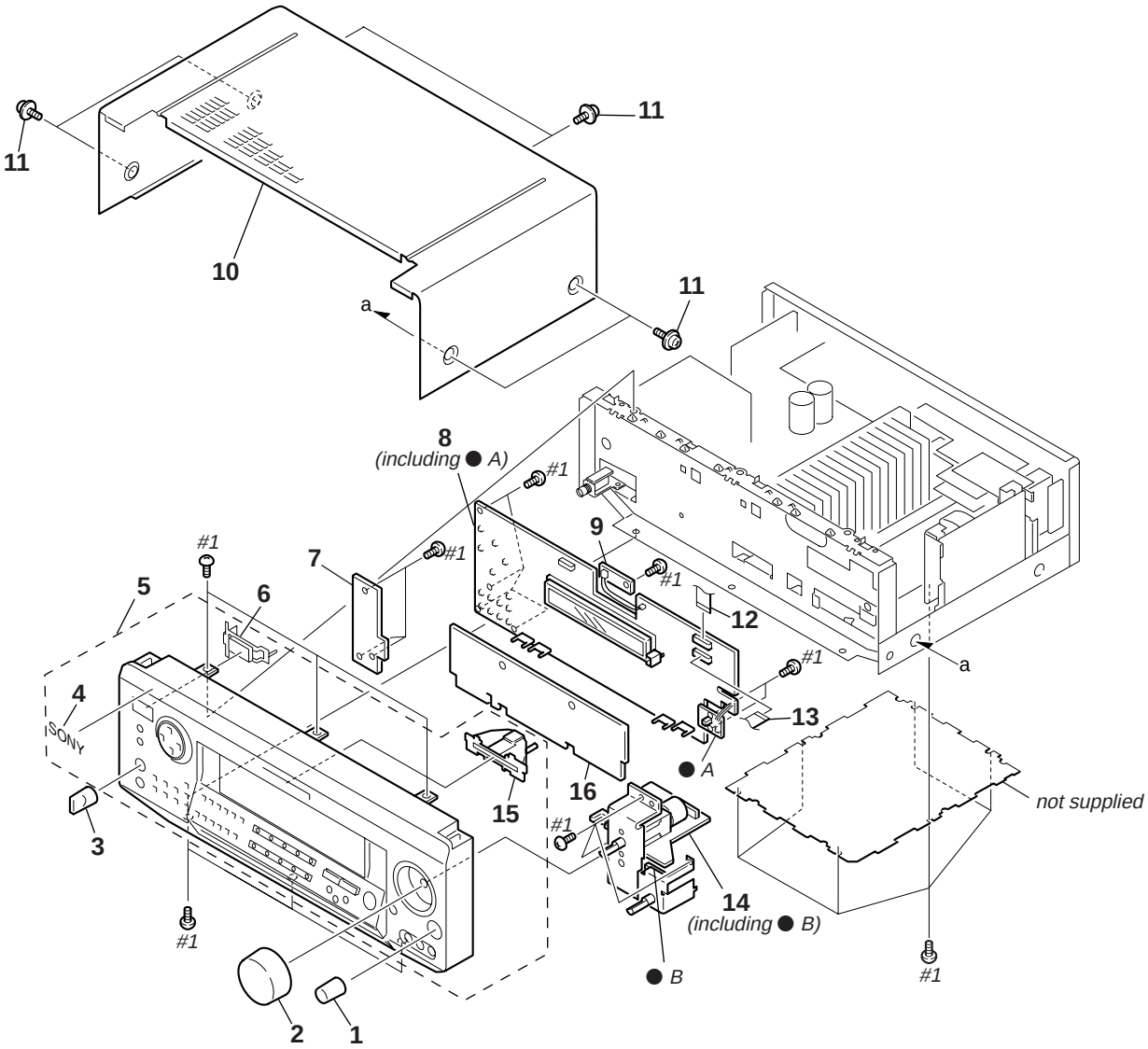
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

4-1. FRONT PANEL SECTION

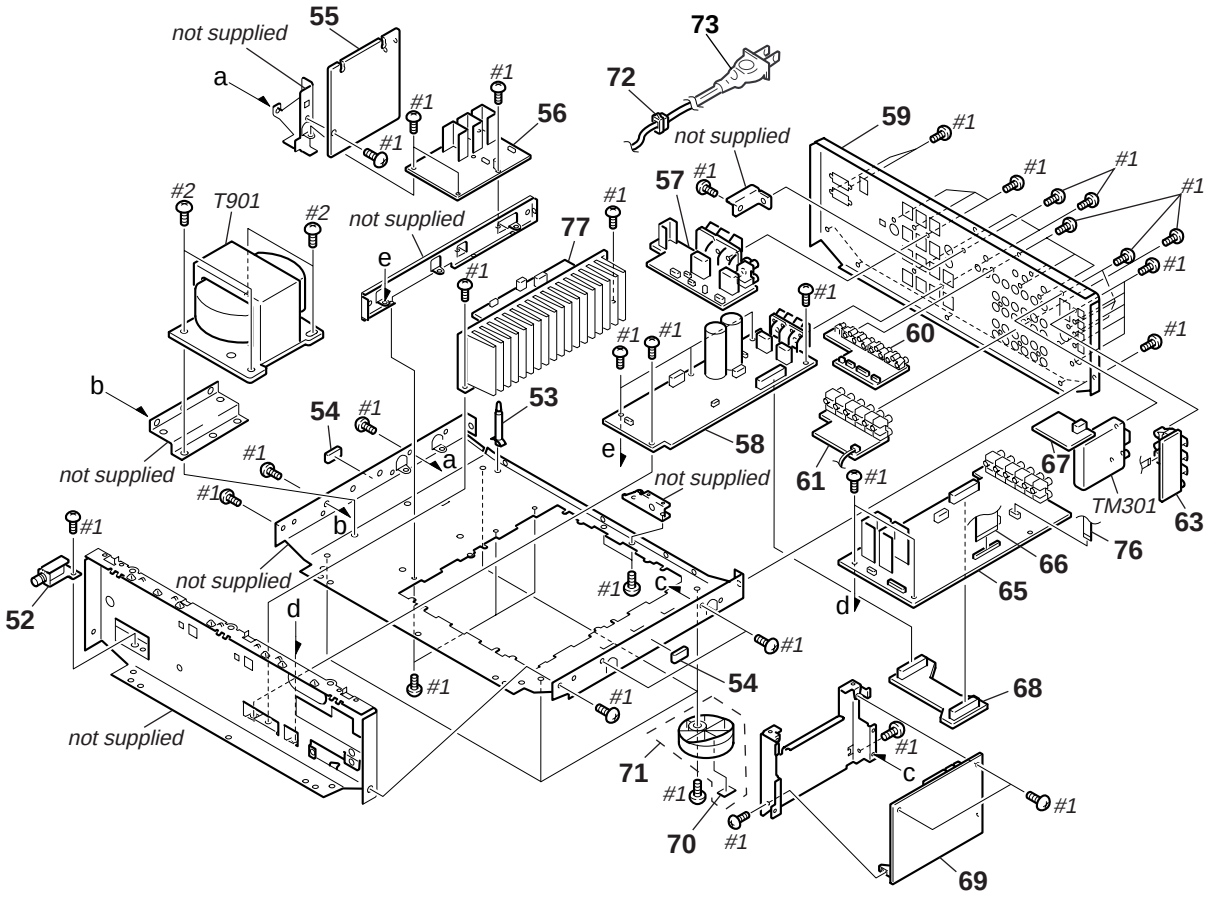
●A : L.B board

●B : BALANCE board



Ref. No.	Part No.	Description	Remarks
1	4-957-383-01	KNOB (F14)	
2	X-4949-627-1	KNOB (VOL) ASSY	
3	4-998-717-01	KNOB (BAL)	
4	4-996-698-01	EMBLEM, SONY	
5	X-4949-745-1	PANEL ASSY, FRONT	
6	4-989-850-01	BUTTON (BB)	
* 7	1-670-010-11	SP SW BOARD	
* 8	A-4414-102-A	DISPLAY BOARD, COMPLETE	
* 9	1-670-007-11	LED BOARD	
* 10	4-982-682-01	CASE (414532)	
11	4-210-291-01	SCREW (CASE 3 TP2)	
12	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)	
13	1-769-959-11	WIRE (FLAT TYPE) (11 CORE)	
* 14	A-4414-304-A	VOLUME BOARD, COMPLETE	
15	X-3375-588-1	ESCUTCHEON (WIN) ASSY	
* 16	A-4414-123-A	SW BOARD, COMPLETE	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 52	1-670-006-11	H.P BOARD	
* 53	4-924-098-31	HOLDER, PC BOARD	
54	4-985-642-01	CUSHION	
* 55	1-669-998-11	AC BOARD	
* 56	A-4414-109-A	REG BOARD, COMPLETE	
* 57	A-4414-124-A	SP BOARD, COMPLETE	
* 58	A-4414-092-A	AMPLIFIER BOARD, COMPLETE	
* 59	4-999-237-01	PANEL, BACK	
* 60	1-670-003-11	VIDEO BOARD	
* 61	1-670-001-11	AUDIO BOARD	
* 63	1-670-029-11	D.IN/OUT BOARD	
* 65	A-4414-093-A	INPUT BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remarks
66	1-773-285-11	WIRE (FLAT TYPE) (29 CORE)	
* 67	1-670-000-11	TUNER BOARD	
* 68	1-670-027-11	JOINT BOARD	
* 69	A-4414-126-A	DIGITAL BOARD, COMPLETE	
70	4-977-358-11	CUSHION	
71	X-4947-208-1	FOOT ASSY (F50150S)	
* 72	3-703-244-00	BUSHING (2104), CORD	
⚠73	1-769-743-11	CORD, POWER	
76	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)	
* 77	A-4414-112-A	AMP REAR BOARD, COMPLETE	
⚠T901	1-431-887-11	TRANSFORMER, POWER	
⚠TM301	1-693-407-11	TUNER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AC **AMPLIFIER**

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
*	1-669-998-11	AC BOARD			
		********			
	1-533-217-31	HOLDER, FUSE			
		< JACK >			
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR)			
		< CONNECTOR >			
CNP915	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CNV901	1-564-321-00	PIN, CONNECTOR 2P			
* CNV902	1-565-792-11	PIN, CONNECTOR 2P			
		< DIODE >			
D907	8-719-911-19	DIODE 1SS119			
		< TERMINAL >			
* EB902	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠F901	1-533-311-11	FUSE,GLASS CYNDRICAL(DIA.5)8A			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID 3.3M 10% 1/2W			
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER			
**********					
*	A-4414-092-A	AMPLIFIER BOARD, COMPLETE			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C520	1-104-664-11	ELECT	47uF	20%	16V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C570	1-104-664-11	ELECT	47uF	20%	16V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V
C590	1-126-935-11	ELECT	470uF	20%	6.3V
C598	1-126-965-11	ELECT	22uF	20%	50V
C620	1-104-664-11	ELECT	47uF	20%	16V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C803	1-109-932-11	ELECT (BLOCK)	10000uF	20%	71V
C804	1-109-932-11	ELECT (BLOCK)	10000uF	20%	71V
C805	1-130-781-00	FILM	0.22uF	10%	100V
C806	1-130-781-00	FILM	0.22uF	10%	100V
C807	1-126-967-11	ELECT	47uF	20%	50V
C808	1-126-967-11	ELECT	47uF	20%	50V
C811	1-126-953-11	ELECT	2200uF	20%	35V
C812	1-126-952-11	ELECT	1000uF	20%	35V
C813	1-104-664-11	ELECT	47uF	20%	16V
CC48	1-136-153-00	FILM	0.01uF	5%	50V
CC49	1-136-153-00	FILM	0.01uF	5%	50V
CC98	1-136-153-00	FILM	0.01uF	5%	50V
CC99	1-136-153-00	FILM	0.01uF	5%	50V
		< CONNECTOR >			
CNP751	1-779-978-11	PIN, CONNECTOR 3P			
* CNP801	1-564-243-11	PIN, CONNECTOR 6P			
* CNP802	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
CNP805	1-784-923-11	PIN, CONNECTOR 7P			
CNP806	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS651	1-784-806-11	HOUSING, CONNECTOR(PC BOARD)13P			
		< DIODE >			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-109-51	DIODE RD2.0ES-B2			
D503	8-719-109-51	DIODE RD2.0ES-B2			
D504	8-719-911-19	DIODE 1SS119			
D505	8-719-911-19	DIODE 1SS119			
D506	8-719-911-19	DIODE 1SS119			
D545	8-719-911-19	DIODE 1SS119			
D546	8-719-911-19	DIODE 1SS119			
D547	8-719-911-19	DIODE 1SS119			
D548	8-719-911-19	DIODE 1SS119			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
D549	8-719-911-19	DIODE 1SS119	
D551	8-719-911-19	DIODE 1SS119	
D552	8-719-109-51	DIODE RD2.0ES-B2	
D553	8-719-109-51	DIODE RD2.0ES-B2	
D554	8-719-911-19	DIODE 1SS119	
D555	8-719-911-19	DIODE 1SS119	
D556	8-719-911-19	DIODE 1SS119	
D601	8-719-911-19	DIODE 1SS119	
D602	8-719-109-51	DIODE RD2.0ES-B2	
D603	8-719-109-51	DIODE RD2.0ES-B2	
D604	8-719-911-19	DIODE 1SS119	
D608	8-719-911-19	DIODE 1SS119	
D647	8-719-911-19	DIODE 1SS119	
D648	8-719-911-19	DIODE 1SS119	
D801	8-719-302-38	DIODE RBV-602-01	
D802	8-719-024-99	DIODE 11ES2-NTA2B	
D803	8-719-024-99	DIODE 11ES2-NTA2B	
D804	8-719-024-99	DIODE 11ES2-NTA2B	
D805	8-719-024-99	DIODE 11ES2-NTA2B	
D806	8-719-160-26	DIODE RD5.6F-B2	
D807	8-719-934-22	DIODE HZS30-2L	
D809	8-719-210-21	DIODE 11EQS04	
		< TERMINAL >	
* EB701	1-537-738-21	TERMINAL, EARTH	
* EB702	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F801	1-532-311-11	FUSE,GLASS CYNDRICAL(DIA.5)8A	
⚠F802	1-532-311-11	FUSE,GLASS CYNDRICAL(DIA.5)8A	
⚠F803	1-533-419-11	FUSE,GLASS CYNDRICAL(DIA.5)4A	
⚠F804	1-533-419-11	FUSE,GLASS CYNDRICAL(DIA.5)4A	
		< IC >	
IC809	8-759-708-05	IC NJM78L05A	
		< COIL >	
L501	1-420-872-00	COIL, AIR-CORE	
L551	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q507	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q510	8-729-900-63	TRANSISTOR DTA124ES	
Q511	8-729-900-63	TRANSISTOR DTA124ES	
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	TRANSISTOR MN2488-OPY-M	

Ref. No.	Part No.	Description	Remarks
Q557	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q560	8-729-900-63	TRANSISTOR DTA124ES	
Q561	8-729-900-63	TRANSISTOR DTA124ES	
Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q601	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q607	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q612	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q613	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q614	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q615	8-729-900-36	TRANSISTOR DTC124ES	
Q616	8-729-900-36	TRANSISTOR DTC124ES	
Q617	8-729-900-36	TRANSISTOR DTC124ES	
Q618	8-729-900-63	TRANSISTOR DTA124ES	
Q801	8-729-026-68	TRANSISTOR 2SD2525 (TP)	
		< RESISTOR >	
R521	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R522	1-249-433-11	CARBON 22K 5% 1/4W	
R523	1-249-414-11	CARBON 560 5% 1/4W F	
⚠R524	1-249-408-11	CARBON 180 5% 1/4W F	
⚠R525	1-249-408-11	CARBON 180 5% 1/4W F	
R526	1-234-182-11	ENCAPSULATED COMPONENT	
R527	1-247-850-11	CARBON 6.2K 5% 1/4W	
R528	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R529	1-247-866-11	CARBON 30K 5% 1/4W	
R530	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R531	1-249-433-11	CARBON 22K 5% 1/4W	
R532	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R533	1-249-393-11	CARBON 10 5% 1/4W F	
⚠R534	1-249-389-11	CARBON 4.7 5% 1/4W F	
R535	1-249-431-11	CARBON 15K 5% 1/4W	
R539	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R540	1-249-417-11	CARBON 1K 5% 1/4W F	
R541	1-249-429-11	CARBON 10K 5% 1/4W	
R542	1-249-429-11	CARBON 10K 5% 1/4W	
R547	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R548	1-249-429-11	CARBON 10K 5% 1/4W	
⚠R549	1-249-407-11	CARBON 150 5% 1/4W F	
R555	1-247-881-00	CARBON 120K 5% 1/4W	
R556	1-247-881-00	CARBON 120K 5% 1/4W	
R571	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R572	1-249-433-11	CARBON 22K 5% 1/4W	
R573	1-249-414-11	CARBON 560 5% 1/4W F	
⚠R574	1-249-408-11	CARBON 180 5% 1/4W F	
⚠R575	1-249-408-11	CARBON 180 5% 1/4W F	
⚠R576	1-234-182-11	ENCAPSULATED COMPONENT	
R577	1-247-850-11	CARBON 6.2K 5% 1/4W	
R578	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R579	1-247-866-11	CARBON 30K 5% 1/4W	
R580	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R581	1-249-433-11	CARBON 22K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMPLIFIER | AUDIO | D.IN/OUT

Ref. No.	Part No.	Description			Remarks
R582	1-249-437-11	CARBON	47K	5%	1/4W
⚠R583	1-249-393-11	CARBON	10	5%	1/4W F
⚠R584	1-249-389-11	CARBON	4.7	5%	1/4W F
R585	1-249-431-11	CARBON	15K	5%	1/4W
R586	1-249-429-11	CARBON	10K	5%	1/4W
R587	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R588	1-249-407-11	CARBON	150	5%	1/4W F
⚠R607	1-216-456-00	METAL OXIDE	820	5%	2W F
R621	1-249-422-11	CARBON	2.7K	5%	1/4W F
R622	1-247-881-00	CARBON	120K	5%	1/4W
R623	1-249-414-11	CARBON	560	5%	1/4W F
⚠R624	1-249-408-11	CARBON	180	5%	1/4W F
⚠R625	1-249-408-11	CARBON	180	5%	1/4W F
⚠R626	1-234-182-11	ENCAPSULATED COMPONENT			
R627	1-247-850-11	CARBON	6.2K	5%	1/4W
R628	1-249-419-11	CARBON	1.5K	5%	1/4W F
R632	1-249-437-11	CARBON	47K	5%	1/4W
⚠R633	1-249-393-11	CARBON	10	5%	1/4W F
⚠R640	1-215-886-11	METAL OXIDE	100	5%	2W F
R641	1-249-441-11	CARBON	100K	5%	1/4W
⚠R642	1-215-888-00	METAL OXIDE	220	5%	2W F
R643	1-249-441-11	CARBON	100K	5%	1/4W
⚠R644	1-216-456-00	METAL OXIDE	820	5%	2W F
R645	1-249-441-11	CARBON	100K	5%	1/4W
R650	1-249-425-11	CARBON	4.7K	5%	1/4W F
R657	1-249-429-11	CARBON	10K	5%	1/4W
⚠R658	1-249-393-11	CARBON	10	5%	1/4W F
R672	1-249-433-11	CARBON	22K	5%	1/4W
R739	1-215-868-00	METAL OXIDE	680	5%	1W F
R789	1-215-868-00	METAL OXIDE	680	5%	1W F
R801	1-247-843-11	CARBON	3.3K	5%	1/4W
⚠R802	1-249-401-11	CARBON	47	5%	1/4W F
⚠RR48	1-249-393-11	CARBON	10	5%	1/4W F
⚠RR49	1-249-393-11	CARBON	10	5%	1/4W F
⚠RR98	1-249-393-11	CARBON	10	5%	1/4W F
⚠RR99	1-249-393-11	CARBON	10	5%	1/4W F
		< RELAY >			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
		< TERMINAL >			
TM501	1-537-922-11	TERMINAL BOARD (SPEAKERS)			
**********					
*	1-670-001-11	AUDIO BOARD			
		**********			
		< CAPACITOR >			
C396	1-126-022-11	ELECT	47uF	20%	16V
C397	1-126-022-11	ELECT	47uF	20%	16V
C398	1-162-282-31	CERAMIC	100PF	10%	50V
C399	1-162-294-31	CERAMIC	0.001uF	10%	50V
CC08	1-162-282-31	CERAMIC	100PF	10%	50V
CC09	1-162-282-31	CERAMIC	100PF	10%	50V
CC10	1-162-282-31	CERAMIC	100PF	10%	50V
CC11	1-162-282-31	CERAMIC	100PF	10%	50V
CC12	1-162-282-31	CERAMIC	100PF	10%	50V
CC13	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remarks
CC58	1-162-282-31	CERAMIC	100PF	10%	50V
CC59	1-162-282-31	CERAMIC	100PF	10%	50V
CC60	1-162-282-31	CERAMIC	100PF	10%	50V
CC61	1-162-282-31	CERAMIC	100PF	10%	50V
CC62	1-162-282-31	CERAMIC	100PF	10%	50V
CC63	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNS351	1-784-729-11	CONNECTOR, FFC 7P			
		< IC >			
IC303	8-759-805-14	IC LC7822			
		< JACK >			
J304	1-784-920-11	JACK, PIN 6P (VIDEO1IN/OUT,VIDEO2IN/OUT)			
J305	1-784-920-11	JACK, PIN 6P (VIDEO2T,DVD,DVD/LD,TV/DBS)			
		< RESISTOR >			
R315	1-249-417-11	CARBON	1K	5%	1/4W F
R316	1-249-417-11	CARBON	1K	5%	1/4W F
R317	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-249-417-11	CARBON	1K	5%	1/4W F
R320	1-249-417-11	CARBON	1K	5%	1/4W F
R365	1-249-417-11	CARBON	1K	5%	1/4W F
R366	1-249-417-11	CARBON	1K	5%	1/4W F
R367	1-249-417-11	CARBON	1K	5%	1/4W F
R368	1-249-417-11	CARBON	1K	5%	1/4W F
R369	1-249-417-11	CARBON	1K	5%	1/4W F
R370	1-249-417-11	CARBON	1K	5%	1/4W F
R394	1-249-397-11	CARBON	22	5%	1/4W F
R395	1-249-397-11	CARBON	22	5%	1/4W F
R398	1-249-417-11	CARBON	1K	5%	1/4W F
R399	1-249-425-11	CARBON	4.7K	5%	1/4W F
**********					
*	1-670-029-11	D.IN/OUT BOARD			
		**********			
		< CAPACITOR >			
C1001	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1005	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1006	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1009	1-104-664-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CNS13	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< IC >			
IC1001	8-749-923-05	IC TORX178			
IC1005	8-759-236-19	IC TC74HC151AF(EL)			
IC1006	8-759-235-19	IC TC74HC08AF(EL)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R1001	1-216-022-00	METAL CHIP	75	5%	1/10W
R1002	1-216-022-00	METAL CHIP	75	5%	1/10W
R1003	1-216-022-00	METAL CHIP	75	5%	1/10W
R1005	1-216-025-91	RES,CHIP	100	5%	1/10W
R1006	1-216-025-91	RES,CHIP	100	5%	1/10W
R1007	1-216-025-91	RES,CHIP	100	5%	1/10W
R1011	1-216-025-91	RES,CHIP	100	5%	1/10W
**********					
*	A-4414-126-A	DIGITAL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1101	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1102	1-126-022-11	ELECT	47uF	20%	16V
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1105	1-126-022-11	ELECT	47uF	20%	16V
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1107	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1109	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1110	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1113	1-126-059-11	ELECT	10uF	20%	50V
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1115	1-126-059-11	ELECT	10uF	20%	50V
C1116	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1117	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1119	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1120	1-126-059-11	ELECT	10uF	20%	50V
C1121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1122	1-126-233-11	ELECT	22uF	20%	50V
C1123	1-106-347-00	MYLAR	1500PF	5%	200V
C1124	1-126-233-11	ELECT	22uF	20%	50V
C1125	1-126-233-11	ELECT	22uF	20%	50V
C1126	1-126-233-11	ELECT	22uF	20%	50V
C1127	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1128	1-126-233-11	ELECT	22uF	20%	50V
C1129	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1130	1-126-233-11	ELECT	22uF	20%	50V
C1131	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1132	1-126-233-11	ELECT	22uF	20%	50V
C1133	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1134	1-126-233-11	ELECT	22uF	20%	50V
C1135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1136	1-126-233-11	ELECT	22uF	20%	50V
C1137	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1138	1-126-233-11	ELECT	22uF	20%	50V
C1139	1-126-022-11	ELECT	47uF	20%	16V
C1140	1-126-022-11	ELECT	47uF	20%	16V
C1141	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1142	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1143	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1170	1-126-059-11	ELECT	10uF	20%	50V
C1171	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C1172	1-126-233-11	ELECT	22uF	20%	50V
C1173	1-106-347-00	MYLAR	1500PF	5%	200V
C1174	1-126-233-11	ELECT	22uF	20%	50V
C1175	1-126-233-11	ELECT	22uF	20%	50V
C1176	1-126-233-11	ELECT	22uF	20%	50V
C1201	1-126-059-11	ELECT	10uF	20%	50V
C1202	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1203	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1204	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1205	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1206	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1207	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1208	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1210	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1211	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1212	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1213	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1214	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1215	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1216	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1217	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1218	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1305	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1306	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1309	1-126-916-11	ELECT	1000uF	20%	6.3V
C1310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1312	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1402	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1403	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1404	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1409	1-124-443-00	ELECT	100uF	20%	10V
C1410	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1411	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1412	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1501	1-126-012-11	ELECT	470uF	20%	16V
C1502	1-126-022-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CNP10	1-784-926-11	PIN, CONNECTOR 11P			
CNP11	1-779-977-11	PIN, CONNECTOR 6P			
CNP12	1-784-923-11	PIN, CONNECTOR 7P			
CNP14	1-779-978-11	PIN, CONNECTOR 3P			
CNS10	1-784-782-11	CONNECTOR, FFC 21P			
CNS11	1-784-790-11	CONNECTOR, FFC 29P			

DIGITAL

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D1101	8-719-016-74	DIODE 1SS352	
D1201	8-719-016-74	DIODE 1SS352	
D1202	8-719-801-78	DIODE 1SS184	
D1203	8-719-801-78	DIODE 1SS184	
D1204	8-719-016-74	DIODE 1SS352	
D1205	8-719-016-74	DIODE 1SS352	
D1206	8-719-801-78	DIODE 1SS184	
		< TERMINAL >	
* EB1001	1-537-738-21	TERMINAL, EARTH	
		< FERRITE BEAD >	
FB1101	1-410-397-21	FERRITE BEAD INDUCTOR	
FB1102	1-410-397-21	FERRITE BEAD INDUCTOR	
		< IC >	
IC1101	8-759-294-79	IC CXD8495AQ	
IC1102	8-759-491-46	IC TC74VHC04FT(EL)	
IC1103	8-759-534-62	IC AK4526	
IC1104	8-759-636-55	IC M5218AFP	
IC1105	8-759-636-55	IC M5218AFP	
IC1106	8-759-636-55	IC M5218AFP	
IC1107	8-759-636-55	IC M5218AFP	
IC1108	8-759-032-01	IC MC74HC00AF	
IC1109	8-759-195-02	IC TC7S86F-TE85L	
IC1154	8-759-636-55	IC M5218AFP	
IC1201	8-759-569-05	IC MB90574PFV-G-161-BND	
IC1202	8-759-491-46	IC TC74VHC04FT(EL)	
IC1301	8-759-534-61	IC CS4923	
IC1305	8-759-530-30	IC TC74VHCU04FT(EL)	
IC1401	8-752-391-87	IC CXD2712R	
IC1402	8-759-538-16	IC IDT71V016S15PH-TL	
IC1403	8-759-524-48	IC TC74VHC393FT(EL)	
IC1501	8-759-231-53	IC TA7805S	
		< JUMPER RESISTOR >	
JW1	1-216-295-91	SHORT 0	
JW2	1-216-295-91	SHORT 0	
JW3	1-216-295-91	SHORT 0	
JW11	1-216-295-91	SHORT 0	
JW12	1-216-295-91	SHORT 0	
JW13	1-216-295-91	SHORT 0	
		< TRANSISTOR >	
Q1201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1202	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1204	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1205	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1208	8-729-027-43	TRANSISTOR DTC114EKA-T146	

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R1101	1-216-025-91	RES, CHIP	100	5%	1/10W
R1102	1-216-025-91	RES, CHIP	100	5%	1/10W
R1103	1-216-025-91	RES, CHIP	100	5%	1/10W
R1104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1105	1-216-082-00	RES, CHIP	24K	5%	1/10W
R1106	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1107	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1108	1-216-029-00	METAL CHIP	150	5%	1/10W
R1109	1-216-104-00	METAL CHIP	200K	5%	1/10W
R1110	1-216-025-91	RES, CHIP	100	5%	1/10W
R1111	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1112	1-216-025-91	RES, CHIP	100	5%	1/10W
R1113	1-216-025-91	RES, CHIP	100	5%	1/10W
R1114	1-216-025-91	RES, CHIP	100	5%	1/10W
R1115	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1116	1-216-025-91	RES, CHIP	100	5%	1/10W
R1117	1-216-025-91	RES, CHIP	100	5%	1/10W
R1118	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1119	1-216-025-91	RES, CHIP	100	5%	1/10W
R1120	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1121	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1122	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1123	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1124	1-216-037-00	METAL CHIP	330	5%	1/10W
R1125	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1126	1-216-037-00	METAL CHIP	330	5%	1/10W
R1127	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1128	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1129	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1130	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1131	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1132	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1133	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1134	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1135	1-216-025-91	RES, CHIP	100	5%	1/10W
R1136	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1137	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1138	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1139	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1140	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1141	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1142	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1143	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1144	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1145	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1146	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1147	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1148	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1149	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1150	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1151	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1152	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1153	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1154	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1155	1-216-295-91	SHORT	0		

Ref. No.	Part No.	Description			Remarks
R1156	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1157	1-216-295-91	SHORT	0		
R1158	1-216-025-91	RES, CHIP	100	5%	1/10W
R1159	1-216-025-91	RES, CHIP	100	5%	1/10W
R1160	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1161	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1162	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1163	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1164	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1165	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1166	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1170	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1171	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1172	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1173	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1174	1-216-037-00	METAL CHIP	330	5%	1/10W
R1175	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1176	1-216-037-00	METAL CHIP	330	5%	1/10W
R1177	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1178	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1179	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1180	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1201	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1202	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1203	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1204	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1205	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1206	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1207	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1208	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1209	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1210	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1211	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1212	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1213	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1214	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1215	1-216-025-91	RES, CHIP	100	5%	1/10W
R1216	1-216-025-91	RES, CHIP	100	5%	1/10W
R1217	1-216-025-91	RES, CHIP	100	5%	1/10W
R1218	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1219	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1220	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1221	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1222	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1223	1-216-104-00	METAL CHIP	200K	5%	1/10W
R1224	1-216-295-91	SHORT	0		
R1225	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1226	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1227	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1229	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1230	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1231	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1232	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1233	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1234	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1235	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1236	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1237	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1238	1-216-049-91	RES, CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1239	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1240	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1242	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1243	1-216-025-91	RES, CHIP	100	5%	1/10W
R1244	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1245	1-216-041-00	METAL CHIP	470	5%	1/10W
R1246	1-216-025-91	RES, CHIP	100	5%	1/10W
R1247	1-216-025-91	RES, CHIP	100	5%	1/10W
R1248	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1249	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1250	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1252	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1253	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1254	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1255	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1256	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1257	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1258	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1259	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1260	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1261	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1262	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1263	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1264	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1265	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1266	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1267	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1268	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1269	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1270	1-216-025-91	RES, CHIP	100	5%	1/10W
R1271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1272	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1273	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1274	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1275	1-216-025-91	RES, CHIP	100	5%	1/10W
R1276	1-216-025-91	RES, CHIP	100	5%	1/10W
R1277	1-216-025-91	RES, CHIP	100	5%	1/10W
R1278	1-216-025-91	RES, CHIP	100	5%	1/10W
R1279	1-216-025-91	RES, CHIP	100	5%	1/10W
R1280	1-216-025-91	RES, CHIP	100	5%	1/10W
R1282	1-216-295-91	SHORT	0		
R1283	1-216-295-91	SHORT	0		
R1285	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1286	1-216-025-91	RES, CHIP	100	5%	1/10W
R1287	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1301	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1302	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1303	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1304	1-216-025-91	RES, CHIP	100	5%	1/10W
R1305	1-216-025-91	RES, CHIP	100	5%	1/10W
R1306	1-216-041-00	METAL CHIP	470	5%	1/10W
R1307	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1308	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1309	1-216-025-91	RES, CHIP	100	5%	1/10W
R1310	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1311	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1312	1-216-025-91	RES, CHIP	100	5%	1/10W
R1313	1-216-065-91	RES, CHIP	4.7K	5%	1/10W

DIGITAL DISPLAY

Ref. No.	Part No.	Description				Remarks
R1314	1-216-295-91	SHORT	0			
R1315	1-216-295-91	SHORT	0			
R1316	1-216-295-91	SHORT	0			
R1317	1-216-295-91	SHORT	0			
R1318	1-216-295-91	SHORT	0			
⚠R1319	1-215-884-11	METAL OXIDE	47	5%	2W F	
R1320	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1321	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1322	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1323	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1324	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1325	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1326	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1327	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1328	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1329	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1330	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1331	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1332	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1401	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1402	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1403	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1405	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1406	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1407	1-216-295-91	SHORT	0			
R1408	1-216-025-91	RES, CHIP	100	5%	1/10W	
R1409	1-216-025-91	RES, CHIP	100	5%	1/10W	
R1410	1-216-295-91	SHORT	0			
		< VIBRATOR >				
X1101	1-567-970-11	VIBRATOR, CRYSTAL 24.567MHz				
X1201	1-577-082-11	VIBRATOR, CERAMIC 4MHz				
X1301	1-767-949-21	VIBRATOR, CERAMIC 49.152MHz				
**********						
*	A-4414-102-A	DISPLAY BOARD, COMPLETE				
		**********				
		(Including L.B BOARD)				
*	4-921-941-01	CUSHION (FL)				
*	4-990-797-01	HOLDER (FL)				
		< CAPACITOR >				
C101	1-104-664-11	ELECT	47uF	20%	16V	
C104	1-126-964-11	ELECT	10uF	20%	50V	
C105	1-104-905-11	CAPACITOR	0.22F		5.5V	
C106	1-164-159-11	CERAMIC	0.1uF		50V	
C107	1-164-159-11	CERAMIC	0.1uF		50V	
C108	1-164-159-11	CERAMIC	0.1uF		50V	
C109	1-164-159-11	CERAMIC	0.1uF		50V	
C110	1-164-159-11	CERAMIC	0.1uF		50V	
C111	1-164-159-11	CERAMIC	0.1uF		50V	
C112	1-164-159-11	CERAMIC	0.1uF		50V	
C113	1-164-159-11	CERAMIC	0.1uF		50V	
C117	1-164-159-11	CERAMIC	0.1uF		50V	
C118	1-164-159-11	CERAMIC	0.1uF		50V	
C119	1-104-664-11	ELECT	47uF	20%	16V	
C120	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description			Remarks
C121	1-104-664-11	ELECT	47uF	20%	16V
C122	1-164-159-11	CERAMIC	0.1uF		50V
C123	1-164-159-11	CERAMIC	0.1uF		50V
C124	1-162-294-31	CERAMIC	0.001uF	10%	50V
C183	1-126-964-11	ELECT	10uF	20%	50V
C184	1-126-964-11	ELECT	10uF	20%	50V
C191	1-164-159-11	CERAMIC	0.1uF		50V
C192	1-107-818-11	CAPACITOR	1F		5.5V
CC20	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP106	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
CNP113	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP114	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP115	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP116	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS103	1-784-772-11	CONNECTOR, FFC 11P			
CNS104	1-784-743-11	CONNECTOR, FFC 21P			
CNS107	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< DIODE >			
D101	8-719-313-45	DIODE SEL6810A-TH10			
D102	8-719-024-99	DIODE 11ES2-NTA2B			
D103	8-719-911-19	DIODE 1SS119			
D104	8-719-046-39	DIODE SEL5821A-TH15			
D105	8-719-046-39	DIODE SEL5821A-TH15			
D106	8-719-046-39	DIODE SEL5821A-TH15			
D108	8-719-046-39	DIODE SEL5821A-TH15			
D119	8-719-046-39	DIODE SEL5821A-TH15			
D122	8-719-046-39	DIODE SEL5821A-TH15			
D180	8-719-911-19	DIODE 1SS119			
		< FILTER >			
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-459-83	IC NJL55H400A(REMOTE SENSOR)			
IC102	8-759-566-11	IC MB90553APF-G-131-BND			
IC103	8-759-962-08	IC BA6208			
IC104	8-759-463-11	IC MSC1162AGS-BK			
IC105	8-759-389-51	IC MSC1164GS-KR1			
		< COIL >			
L101	1-410-509-11	INDUCTOR 10uH			
		< TRANSISTOR >			
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q102	8-729-900-36	TRANSISTOR DTC124ES			
Q103	8-729-900-36	TRANSISTOR DTC124ES			
Q104	8-729-900-36	TRANSISTOR DTC124ES			
Q105	8-729-900-36	TRANSISTOR DTC124ES			
Q106	8-729-900-36	TRANSISTOR DTC124ES			
Q107	8-729-900-36	TRANSISTOR DTC124ES			
Q108	8-729-900-36	TRANSISTOR DTC124ES			
Q109	8-729-900-36	TRANSISTOR DTC124ES			
Q110	8-729-900-36	TRANSISTOR DTC124ES			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
Q112	8-729-900-36	TRANSISTOR	DTC124ES		
Q113	8-729-900-36	TRANSISTOR	DTC124ES		
Q114	8-729-900-36	TRANSISTOR	DTC124ES		
Q116	8-729-900-36	TRANSISTOR	DTC124ES		
Q117	8-729-900-36	TRANSISTOR	DTC124ES		
Q118	8-729-900-36	TRANSISTOR	DTC124ES		
Q119	8-729-900-36	TRANSISTOR	DTC124ES		
Q120	8-729-900-36	TRANSISTOR	DTC124ES		
Q122	8-729-900-36	TRANSISTOR	DTC124ES		
Q180	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R101	1-249-411-11	CARBON	330	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-437-11	CARBON	47K	5%	1/4W
R104	1-249-429-11	CARBON	10K	5%	1/4W
R105	1-249-393-11	CARBON	10	5%	1/4W F
R106	1-249-437-11	CARBON	47K	5%	1/4W
R107	1-249-433-11	CARBON	22K	5%	1/4W
R110	1-249-419-11	CARBON	1.5K	5%	1/4W F
R111	1-247-807-31	CARBON	100	5%	1/4W
R112	1-247-807-31	CARBON	100	5%	1/4W
R113	1-247-807-31	CARBON	100	5%	1/4W
R114	1-247-807-31	CARBON	100	5%	1/4W
⚠R115	1-249-385-11	CARBON	2.2	5%	1/6W F
R116	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-433-11	CARBON	22K	5%	1/4W
R118	1-249-433-11	CARBON	22K	5%	1/4W
R119	1-249-417-11	CARBON	1K	5%	1/4W F
R120	1-249-417-11	CARBON	1K	5%	1/4W F
R121	1-249-417-11	CARBON	1K	5%	1/4W F
R122	1-249-429-11	CARBON	10K	5%	1/4W
R123	1-249-417-11	CARBON	1K	5%	1/4W F
R124	1-249-411-11	CARBON	330	5%	1/4W
R125	1-249-425-11	CARBON	4.7K	5%	1/4W F
R126	1-249-425-11	CARBON	4.7K	5%	1/4W F
R127	1-249-425-11	CARBON	4.7K	5%	1/4W F
R128	1-249-425-11	CARBON	4.7K	5%	1/4W F
R129	1-249-417-11	CARBON	1K	5%	1/4W F
R130	1-249-425-11	CARBON	4.7K	5%	1/4W F
R131	1-249-425-11	CARBON	4.7K	5%	1/4W F
R132	1-249-425-11	CARBON	4.7K	5%	1/4W F
R133	1-249-411-11	CARBON	330	5%	1/4W
R134	1-249-411-11	CARBON	330	5%	1/4W
R135	1-249-411-11	CARBON	330	5%	1/4W
⚠R161	1-249-385-11	CARBON	2.2	5%	1/6W F
R162	1-249-421-11	CARBON	2.2K	5%	1/4W F
R163	1-249-421-11	CARBON	2.2K	5%	1/4W F
R164	1-249-411-11	CARBON	330	5%	1/4W
R165	1-249-429-11	CARBON	10K	5%	1/4W
R166	1-249-411-11	CARBON	330	5%	1/4W
R167	1-249-413-11	CARBON	470	5%	1/4W F
R168	1-249-415-11	CARBON	680	5%	1/4W F
R169	1-249-417-11	CARBON	1K	5%	1/4W F
R170	1-249-419-11	CARBON	1.5K	5%	1/4W F
R171	1-249-425-11	CARBON	4.7K	5%	1/4W F
R172	1-249-421-11	CARBON	2.2K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R175	1-249-415-11	CARBON	680	5%	1/4W F
R176	1-249-413-11	CARBON	470	5%	1/4W F
R177	1-249-411-11	CARBON	330	5%	1/4W
R178	1-249-417-11	CARBON	1K	5%	1/4W F
R179	1-249-411-11	CARBON	330	5%	1/4W
R180	1-249-393-11	CARBON	10	5%	1/4W F
R181	1-249-429-11	CARBON	10K	5%	1/4W
R182	1-249-425-11	CARBON	4.7K	5%	1/4W F
R183	1-249-429-11	CARBON	10K	5%	1/4W
R190	1-249-441-11	CARBON	100K	5%	1/4W
R191	1-247-807-31	CARBON	100	5%	1/4W
R193	1-247-807-31	CARBON	100	5%	1/4W
R194	1-247-807-31	CARBON	100	5%	1/4W
R195	1-247-807-31	CARBON	100	5%	1/4W
R196	1-247-807-31	CARBON	100	5%	1/4W
R197	1-249-441-11	CARBON	100K	5%	1/4W
R198	1-249-429-11	CARBON	10K	5%	1/4W
R199	1-249-429-11	CARBON	10K	5%	1/4W
RR10	1-249-425-11	CARBON	4.7K	5%	1/4W F
RR20	1-249-425-11	CARBON	4.7K	5%	1/4W F
RR21	1-249-411-11	CARBON	330	5%	1/4W
RR22	1-249-413-11	CARBON	470	5%	1/4W F
RR23	1-249-415-11	CARBON	680	5%	1/4W F
RRR1	1-249-417-11	CARBON	1K	5%	1/4W F
		< SWITCH >			
S102	1-762-750-11	SWITCH, TACTILE (MUTING)			
S131	1-762-750-11	SWITCH, TACTILE (POWER)			
S132	1-762-750-11	SWITCH, TACTILE (DISP)			
S133	1-762-750-11	SWITCH, TACTILE (PRE+)			
S135	1-762-750-11	SWITCH, TACTILE (LEFT)			
S136	1-762-750-11	SWITCH, TACTILE (UP)			
S137	1-762-750-11	SWITCH, TACTILE (RIGHT)			
S138	1-762-750-11	SWITCH, TACTILE (FM/AM)			
S139	1-762-750-11	SWITCH, TACTILE (FM MODE)			
S142	1-762-750-11	SWITCH, TACTILE (MEMORY)			
S143	1-762-750-11	SWITCH, TACTILE (SLEEP)			
S144	1-762-750-11	SWITCH, TACTILE (TUN+)			
S145	1-762-750-11	SWITCH, TACTILE (TUN–)			
S146	1-762-750-11	SWITCH, TACTILE (PRE–)			
S147	1-762-750-11	SWITCH, TACTILE (DOWN)			
		< VIBRATOR >			
X101	1-577-082-11	VIBRATOR, CERAMIC 4MHz			
**********					
*	1-670-006-11	H.P BOARD			
		*********			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

INPUT

Ref. No.	Part No.	Description			Remarks
*	A-4414-093-A	INPUT BOARD, COMPLETE			
		**********			
	7-685-872-09	SCREW +BVTT 3×8 (S)			
		< CAPACITOR >			
C301	1-126-961-11	ELECT	2.2uF	20%	50V
C303	1-126-934-11	ELECT	220uF	20%	10V
C304	1-125-896-91	MYLAR	0.0091uF	5%	50V
C305	1-136-159-00	FILM	0.033uF	5%	50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-162-282-31	CERAMIC	100PF	10%	50V
C308	1-162-286-31	CERAMIC	220PF	10%	50V
C310	1-162-294-31	CERAMIC	0.001uF	10%	50V
C311	1-126-965-11	ELECT	22uF	20%	50V
C351	1-126-961-11	ELECT	2.2uF	20%	50V
C353	1-126-934-11	ELECT	220uF	20%	10V
C354	1-125-896-91	MYLAR	0.0091uF	5%	50V
C355	1-136-159-00	FILM	0.033uF	5%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V
C357	1-162-282-31	CERAMIC	100PF	10%	50V
C358	1-162-286-31	CERAMIC	220PF	10%	50V
C360	1-162-294-31	CERAMIC	0.001uF	10%	50V
C361	1-126-965-11	ELECT	22uF	20%	50V
C388	1-126-933-11	ELECT	100uF	20%	16V
C389	1-126-933-11	ELECT	100uF	20%	16V
C392	1-104-664-11	ELECT	47uF	20%	16V
C393	1-162-294-31	CERAMIC	0.001uF	10%	50V
C394	1-104-664-11	ELECT	47uF	20%	16V
C395	1-162-282-31	CERAMIC	100PF	10%	50V
C401	1-126-965-11	ELECT	22uF	20%	50V
C402	1-126-965-11	ELECT	22uF	20%	50V
C403	1-126-965-11	ELECT	22uF	20%	50V
C404	1-162-199-31	CERAMIC	10PF	5%	50V
C405	1-162-199-31	CERAMIC	10PF	5%	50V
C406	1-162-199-31	CERAMIC	10PF	5%	50V
C407	1-126-965-11	ELECT	22uF	20%	50V
C408	1-126-965-11	ELECT	22uF	20%	50V
C409	1-126-965-11	ELECT	22uF	20%	50V
C416	1-126-965-11	ELECT	22uF	20%	50V
C417	1-126-965-11	ELECT	22uF	20%	50V
C418	1-126-965-11	ELECT	22uF	20%	50V
C419	1-162-282-31	CERAMIC	100PF	10%	50V
C451	1-126-965-11	ELECT	22uF	20%	50V
C452	1-126-965-11	ELECT	22uF	20%	50V
C453	1-126-965-11	ELECT	22uF	20%	50V
C454	1-162-199-31	CERAMIC	10PF	5%	50V
C455	1-162-199-31	CERAMIC	10PF	5%	50V
C456	1-162-199-31	CERAMIC	10PF	5%	50V
C457	1-126-965-11	ELECT	22uF	20%	50V
C458	1-126-965-11	ELECT	22uF	20%	50V
C459	1-126-965-11	ELECT	22uF	20%	50V
C466	1-126-965-11	ELECT	22uF	20%	50V
C467	1-126-965-11	ELECT	22uF	20%	50V
C468	1-126-965-11	ELECT	22uF	20%	50V
C491	1-164-159-11	CERAMIC	0.1uF		50V
C496	1-126-933-11	ELECT	100uF	20%	16V
C497	1-126-933-11	ELECT	100uF	20%	16V
C498	1-104-664-11	ELECT	47uF	20%	16V
C499	1-104-664-11	ELECT	47uF	20%	16V
C501	1-126-965-11	ELECT	22uF	20%	50V
C502	1-162-282-31	CERAMIC	100PF	10%	50V
C503	1-102-233-00	CERAMIC	33PF	10%	500V
C504	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C505	1-126-934-11	ELECT	220uF	20%	10V
C539	1-162-282-31	CERAMIC	100PF	10%	50V
C551	1-126-965-11	ELECT	22uF	20%	50V
C552	1-162-282-31	CERAMIC	100PF	10%	50V
C553	1-102-233-00	CERAMIC	33PF	10%	500V
C554	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C555	1-126-934-11	ELECT	220uF	20%	10V
C580	1-162-282-31	CERAMIC	100PF	10%	50V
C589	1-162-282-31	CERAMIC	100PF	10%	50V
C593	1-126-934-11	ELECT	220uF	20%	10V
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C601	1-126-965-11	ELECT	22uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-102-233-00	CERAMIC	33PF	10%	500V
C604	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C605	1-126-934-11	ELECT	220uF	20%	10V
C639	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-126-965-11	ELECT	22uF	20%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C655	1-126-934-11	ELECT	220uF	20%	10V
C689	1-162-282-31	CERAMIC	100PF	10%	50V
C701	1-126-965-11	ELECT	22uF	20%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C705	1-126-934-11	ELECT	220uF	20%	10V
C739	1-162-282-31	CERAMIC	100PF	10%	50V
C751	1-126-965-11	ELECT	22uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C755	1-126-934-11	ELECT	220uF	20%	10V
C780	1-162-282-31	CERAMIC	100PF	10%	50V
C789	1-162-282-31	CERAMIC	100PF	10%	50V
CC04	1-162-282-31	CERAMIC	100PF	10%	50V
CC05	1-162-282-31	CERAMIC	100PF	10%	50V
CC06	1-162-282-31	CERAMIC	100PF	10%	50V
CC54	1-162-282-31	CERAMIC	100PF	10%	50V
CC55	1-162-282-31	CERAMIC	100PF	10%	50V
CC56	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNS301	1-784-768-11	CONNECTOR, FFC 7P			
CNS306	1-784-790-11	CONNECTOR, FFC 29P			
CNS403	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS404	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS501	1-784-806-11	HOUSING,CONNECTOR(PC BOARD)13P			
CNS702	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D301	8-719-911-19	DIODE 1SS119			

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC301	8-759-805-14	IC LC7822	
IC302	8-759-636-74	IC M5218AP-22	
IC304	8-759-634-50	IC M5218AL	
IC401	8-759-231-59	IC TA7815S	
IC402	8-759-245-87	IC TA7915S	
IC403	8-759-604-39	IC M5F78M12	
IC404	8-759-708-05	IC NJM78L05A	
IC405	8-759-634-50	IC M5218AL	
IC406	8-759-634-50	IC M5218AL	
IC407	8-759-634-50	IC M5218AL	
IC414	8-759-534-63	IC TC9299P	
IC415	8-759-534-63	IC TC9299P	
IC416	8-759-534-63	IC TC9299P	
IC501	8-759-326-52	IC uPC2581V	
IC601	8-759-326-52	IC uPC2581V	
IC701	8-759-326-52	IC uPC2581V	
		< JACK >	
J301	1-784-429-11	JACK, PIN 4P(PHONO/CD)	
J302	1-784-429-11	JACK, PIN 4P(MD/DAT)	
		< TRANSISTOR >	
Q301	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q303	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q304	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q352	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q353	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q354	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q501	8-729-900-36	TRANSISTOR DTC124ES	
Q503	8-729-900-63	TRANSISTOR DTA124ES	
		< RESISTOR >	
R301	1-249-401-11	CARBON 47 5% 1/4W	F
R302	1-249-441-11	CARBON 100K 5% 1/4W	
R303	1-249-440-11	CARBON 82K 5% 1/4W	
R304	1-249-408-11	CARBON 180 5% 1/4W	F
R305	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R306	1-249-441-11	CARBON 100K 5% 1/4W	
R307	1-247-807-31	CARBON 100 5% 1/4W	
R308	1-249-441-11	CARBON 100K 5% 1/4W	
R309	1-249-413-11	CARBON 470 5% 1/4W	F
R310	1-249-417-11	CARBON 1K 5% 1/4W	F
R311	1-249-417-11	CARBON 1K 5% 1/4W	F
R312	1-249-417-11	CARBON 1K 5% 1/4W	F
R315	1-249-437-11	CARBON 47K 5% 1/4W	
R331	1-249-441-11	CARBON 100K 5% 1/4W	
R335	1-249-437-11	CARBON 47K 5% 1/4W	
R336	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R337	1-249-441-11	CARBON 100K 5% 1/4W	
R338	1-249-417-11	CARBON 1K 5% 1/4W	F
R339	1-249-417-11	CARBON 1K 5% 1/4W	F
R340	1-249-417-11	CARBON 1K 5% 1/4W	F
R341	1-249-417-11	CARBON 1K 5% 1/4W	F
R342	1-249-417-11	CARBON 1K 5% 1/4W	F
R343	1-249-417-11	CARBON 1K 5% 1/4W	F
R344	1-247-807-31	CARBON 100 5% 1/4W	
R345	1-247-807-31	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description	Remarks
R346	1-249-397-11	CARBON 22 5% 1/4W	F
R347	1-249-397-11	CARBON 22 5% 1/4W	F
R351	1-249-401-11	CARBON 47 5% 1/4W	F
R352	1-249-441-11	CARBON 100K 5% 1/4W	
R353	1-249-440-11	CARBON 82K 5% 1/4W	
R354	1-249-408-11	CARBON 180 5% 1/4W	F
R355	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R356	1-249-441-11	CARBON 100K 5% 1/4W	
R357	1-247-807-31	CARBON 100 5% 1/4W	
R358	1-249-441-11	CARBON 100K 5% 1/4W	
R359	1-249-413-11	CARBON 470 5% 1/4W	F
R360	1-249-417-11	CARBON 1K 5% 1/4W	F
R361	1-249-417-11	CARBON 1K 5% 1/4W	F
R362	1-249-417-11	CARBON 1K 5% 1/4W	F
R365	1-249-437-11	CARBON 47K 5% 1/4W	
R381	1-249-441-11	CARBON 100K 5% 1/4W	
R385	1-249-437-11	CARBON 47K 5% 1/4W	
⚠R387	1-249-410-11	CARBON 270 5% 1/4W	F
R388	1-249-417-11	CARBON 1K 5% 1/4W	F
R389	1-249-417-11	CARBON 1K 5% 1/4W	F
R390	1-249-417-11	CARBON 1K 5% 1/4W	F
R391	1-249-417-11	CARBON 1K 5% 1/4W	F
R392	1-249-417-11	CARBON 1K 5% 1/4W	F
R393	1-249-417-11	CARBON 1K 5% 1/4W	F
R396	1-249-417-11	CARBON 1K 5% 1/4W	F
R397	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R401	1-249-441-11	CARBON 100K 5% 1/4W	
R402	1-249-441-11	CARBON 100K 5% 1/4W	
R403	1-249-441-11	CARBON 100K 5% 1/4W	
R404	1-249-431-11	CARBON 15K 5% 1/4W	
R405	1-249-431-11	CARBON 15K 5% 1/4W	
R406	1-249-431-11	CARBON 15K 5% 1/4W	
R407	1-249-437-11	CARBON 47K 5% 1/4W	
R408	1-249-437-11	CARBON 47K 5% 1/4W	
R409	1-249-437-11	CARBON 47K 5% 1/4W	
R451	1-249-441-11	CARBON 100K 5% 1/4W	
R452	1-249-441-11	CARBON 100K 5% 1/4W	
R453	1-249-441-11	CARBON 100K 5% 1/4W	
R454	1-249-431-11	CARBON 15K 5% 1/4W	
R455	1-249-431-11	CARBON 15K 5% 1/4W	
R456	1-249-434-11	CARBON 27K 5% 1/4W	
R457	1-249-437-11	CARBON 47K 5% 1/4W	
R458	1-249-437-11	CARBON 47K 5% 1/4W	
R459	1-249-437-11	CARBON 47K 5% 1/4W	
R501	1-249-417-11	CARBON 1K 5% 1/4W	F
R502	1-249-439-11	CARBON 68K 5% 1/4W	
R503	1-249-439-11	CARBON 68K 5% 1/4W	
R504	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R505	1-249-437-11	CARBON 47K 5% 1/4W	
R551	1-249-417-11	CARBON 1K 5% 1/4W	F
R552	1-249-439-11	CARBON 68K 5% 1/4W	
R553	1-249-439-11	CARBON 68K 5% 1/4W	
R554	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R590	1-249-433-11	CARBON 22K 5% 1/4W	
⚠R592	1-249-381-11	CARBON 1 5% 1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

INPUT JOINT LED REAR AMP

Ref. No.	Part No.	Description			Remarks
⚠R593	1-249-381-11	CARBON	1	5%	1/4W F
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-439-11	CARBON	68K	5%	1/4W
R604	1-249-421-11	CARBON	2.2K	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-439-11	CARBON	68K	5%	1/4W
R654	1-247-843-11	CARBON	3.3K	5%	1/4W
R655	1-249-409-11	CARBON	220	5%	1/4W F
R656	1-249-409-11	CARBON	220	5%	1/4W F
R690	1-249-433-11	CARBON	22K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-439-11	CARBON	68K	5%	1/4W
R704	1-249-421-11	CARBON	2.2K	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R754	1-249-421-11	CARBON	2.2K	5%	1/4W F
R790	1-249-433-11	CARBON	22K	5%	1/4W
		< RELAY >			
RY301	1-515-614-11	RELAY			

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*	1-670-027-11	JOINT BOARD			
		**********			
		< CONNECTOR >			
CNP501	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
CNP651	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			

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*	1-670-007-11	LED BOARD			
		**********			
		< DIODE >			
D100	8-719-070-83	DIODE SELU5E20C-TP15			

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*	A-4414-112-A	REAR AMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C720	1-126-022-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C770	1-126-022-11	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V

Ref. No.	Part No.	Description			Remarks
		< CONNECTOR >			
* CNP701	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P			
CNP711	1-779-977-11	PIN, CONNECTOR 6P			
* CNP712	1-564-242-00	PIN, CONNECTOR 5P			
CNP713	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D701	8-719-911-19	DIODE 1SS119			
D702	8-719-109-51	DIODE RD2.0ES-B2			
D703	8-719-109-51	DIODE RD2.0ES-B2			
D704	8-719-911-19	DIODE 1SS119			
D751	8-719-911-19	DIODE 1SS119			
D752	8-719-109-51	DIODE RD2.0ES-B2			
D753	8-719-109-51	DIODE RD2.0ES-B2			
D754	8-719-911-19	DIODE 1SS119			
		< TRANSISTOR >			
Q704	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q754	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
		< RESISTOR >			
R702	1-247-881-00	CARBON	120K	5%	1/4W
R721	1-249-433-11	CARBON	22K	5%	1/4W
R722	1-249-422-11	CARBON	2.7K	5%	1/4W F
R723	1-249-414-11	CARBON	560	5%	1/4W F
⚠R724	1-249-408-11	CARBON	180	5%	1/4W F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W F
⚠R726	1-234-182-11	ENCAPSULATED COMPONENT			
R727	1-247-850-11	CARBON	6.2K	5%	1/4W
R728	1-249-419-11	CARBON	1.5K	5%	1/4W F
R732	1-249-437-11	CARBON	47K	5%	1/4W
⚠R733	1-249-393-11	CARBON	10	5%	1/4W F
R752	1-247-881-00	CARBON	120K	5%	1/4W
R771	1-249-433-11	CARBON	22K	5%	1/4W
R772	1-249-422-11	CARBON	2.7K	5%	1/4W F
R773	1-249-414-11	CARBON	560	5%	1/4W F
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
⚠R776	1-234-182-11	ENCAPSULATED COMPONENT			
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-419-11	CARBON	1.5K	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
⚠R783	1-249-393-11	CARBON	10	5%	1/4W F

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
*	A-4414-109-A	REG BOARD, COMPLETE			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C819	1-136-165-00	FILM	0.1uF	5%	50V
C820	1-136-165-00	FILM	0.1uF	5%	50V
C821	1-136-165-00	FILM	0.1uF	5%	50V
C822	1-136-165-00	FILM	0.1uF	5%	50V
C823	1-136-165-00	FILM	0.1uF	5%	50V
C824	1-126-937-11	ELECT	4700uF	20%	16V
C825	1-126-935-11	ELECT	470uF	20%	16V
C826	1-126-935-11	ELECT	470uF	20%	16V
C827	1-126-935-11	ELECT	470uF	20%	16V
C901	1-164-097-11	CERAMIC	0.022uF		50V
C902	1-164-097-11	CERAMIC	0.022uF		50V
C903	1-126-768-11	ELECT	2200uF	20%	16V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-959-11	ELECT	0.47uF	20%	50V
C906	1-124-464-11	ELECT	0.22uF	20%	50V
C911	1-164-159-11	CERAMIC	0.1uF		50V
C914	1-164-159-11	CERAMIC	0.1uF		50V
C916	1-164-159-11	CERAMIC	0.1uF		50V
C917	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP803	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP809	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D808	8-719-025-03	DIODE RBA-402-SL			
D901	8-719-024-99	DIODE 11ES2-NTA2B			
D902	8-719-024-99	DIODE 11ES2-NTA2B			
D903	8-719-024-99	DIODE 11ES2-NTA2B			
D904	8-719-024-99	DIODE 11ES2-NTA2B			
D905	8-719-911-19	DIODE 1SS119			
D906	8-719-911-19	DIODE 1SS119			
		< TERMINAL >			
* EB900	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠F805	1-533-419-11	FUSE,GLASS CYNDRICAL (DIA.5) 4A			
		< IC >			
IC801	8-759-231-53	IC TA7805S			
IC802	8-759-445-59	IC BA033T			
IC803	8-759-445-59	IC BA033T			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-026-68	TRANSISTOR 2SD2525 (TP)			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R904	1-249-417-11	CARBON	1K	5%	1/4W F
R905	1-249-428-11	CARBON	8.2K	5%	1/4W F
R906	1-249-421-11	CARBON	2.2K	5%	1/4W F
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-249-430-11	CARBON	12K	5%	1/4W
**********					
*	A-4414-124-A	SP BOARD, COMPLETE			
		**********			
	7-685-872-09	SCREW +BVTT 3×8 (S)			
		< CAPACITOR >			
C624	1-126-059-11	ELECT	10uF	20%	50V
C626	1-136-153-00	FILM	0.01uF	5%	50V
C724	1-126-059-11	ELECT	10uF	20%	50V
C726	1-136-153-00	FILM	0.01uF	5%	50V
C794	1-126-059-11	ELECT	10uF	20%	50V
C795	1-126-941-11	ELECT	470uF	20%	25V
		< JACK >			
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P (WIRELESS REAR SPEAKER)			
		< CONNECTOR >			
CNP601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP602	1-784-922-11	PIN, CONNECTOR 5P			
CNP603	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D543	8-719-911-19	DIODE 1SS119			
D605	8-719-911-19	DIODE 1SS119			
D606	8-719-911-19	DIODE 1SS119			
D607	8-719-911-19	DIODE 1SS119			
D649	8-719-911-19	DIODE 1SS119			
D705	8-719-911-19	DIODE 1SS119			
D706	8-719-911-19	DIODE 1SS119			
D749	8-719-911-19	DIODE 1SS119			
		< IC >			
IC702	8-759-605-01	IC M5F78M18L			
		< JACK >			
J501	1-770-157-21	JACK, PIN 2P(WOOFER)			
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SP **SP SW** **SW**

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q544	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q609	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q610	8-729-900-63	TRANSISTOR	DTA124ES			
Q611	8-729-900-63	TRANSISTOR	DTA124ES			
Q645	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q709	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q710	8-729-900-63	TRANSISTOR	DTA124ES			
Q745	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q747	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q748	8-729-030-19	TRANSISTOR	2SB1640			
		< RESISTOR >				
R543	1-249-429-11	CARBON	10K	5%	1/4W	
R544	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R545	1-249-411-11	CARBON	330	5%	1/4W	
R629	1-247-866-11	CARBON	30K	5%	1/4W	
R630	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R631	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R634	1-249-389-11	CARBON	4.7	5%	1/4W	F
R635	1-249-431-11	CARBON	15K	5%	1/4W	
R636	1-249-433-11	CARBON	22K	5%	1/4W	
R647	1-249-429-11	CARBON	10K	5%	1/4W	
R648	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R649	1-249-407-11	CARBON	150	5%	1/4W	F
R729	1-247-866-11	CARBON	30K	5%	1/4W	
R730	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R731	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R734	1-249-389-11	CARBON	4.7	5%	1/4W	F
R735	1-249-431-11	CARBON	15K	5%	1/4W	
R737	1-249-429-11	CARBON	10K	5%	1/4W	
R738	1-247-887-00	CARBON	220K	5%	1/4W	
R743	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R744	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R745	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R746	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R747	1-249-429-11	CARBON	10K	5%	1/4W	
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R749	1-249-407-11	CARBON	150	5%	1/4W	F
⚠R784	1-249-389-11	CARBON	4.7	5%	1/4W	F
R787	1-249-429-11	CARBON	10K	5%	1/4W	
R788	1-247-887-00	CARBON	220K	5%	1/4W	
		< RELAY >				
RY503	1-515-793-11	RELAY				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
		< SWITCH >				
S501	1-692-196-11	SWITCH, SLIDE(SPEAKERS)				
		< TERMINAL >				
TM701	1-537-923-11	TERMINAL BOARD (SPEAKERS) (6P)				

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Ref. No.	Part No.	Description				Remarks
*	1-670-010-11	SP SW BOARD				
		**********				
		< DIODE >				
D120	8-719-911-19	DIODE	1SS119			
D121	8-719-911-19	DIODE	1SS119			
		< RESISTOR >				
R173	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R174	1-249-419-11	CARBON	1.5K	5%	1/4W	F
		< SWITCH >				
S134	1-762-268-11	SWITCH, ROTARY (SPEAKERS)				
S140	1-762-750-11	SWITCH, TACTILE (SET UP)				
S141	1-762-750-11	SWITCH, TACTILE (CURSOR)				

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*	A-4414-123-A	SW BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C114	1-164-159-11	CERAMIC	0.1uF		50V	
C115	1-164-159-11	CERAMIC	0.1uF		50V	
C116	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CNS113	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS114	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS115	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS116	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
		< DIODE >				
D109	8-719-046-39	DIODE	SEL5821A-TH15			
D110	8-719-046-39	DIODE	SEL5821A-TH15			
D112	8-719-046-39	DIODE	SEL5821A-TH15			
D113	8-719-046-39	DIODE	SEL5821A-TH15			
D114	8-719-046-39	DIODE	SEL5821A-TH15			
D116	8-719-046-39	DIODE	SEL5821A-TH15			
D117	8-719-046-39	DIODE	SEL5821A-TH15			
D118	8-719-046-39	DIODE	SEL5821A-TH15			
		< RESISTOR >				
R136	1-249-413-11	CARBON	470	5%	1/4W	F
R137	1-249-411-11	CARBON	330	5%	1/4W	
R138	1-249-411-11	CARBON	330	5%	1/4W	
R139	1-249-411-11	CARBON	330	5%	1/4W	
R140	1-249-415-11	CARBON	680	5%	1/4W	F
R141	1-249-413-11	CARBON	470	5%	1/4W	F
R142	1-249-413-11	CARBON	470	5%	1/4W	F
R143	1-249-413-11	CARBON	470	5%	1/4W	F
R144	1-249-417-11	CARBON	1K	5%	1/4W	F
R145	1-249-415-11	CARBON	680	5%	1/4W	F
R146	1-249-415-11	CARBON	680	5%	1/4W	F
R147	1-249-415-11	CARBON	680	5%	1/4W	F
R148	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R149	1-249-417-11	CARBON	1K	5%	1/4W	F
R150	1-249-417-11	CARBON	1K	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
R151	1-249-417-11	CARBON	1K	5%	1/4W F
R152	1-249-421-11	CARBON	2.2K	5%	1/4W F
R153	1-249-419-11	CARBON	1.5K	5%	1/4W F
R154	1-249-419-11	CARBON	1.5K	5%	1/4W F
R155	1-249-419-11	CARBON	1.5K	5%	1/4W F
R156	1-249-425-11	CARBON	4.7K	5%	1/4W F
R157	1-249-421-11	CARBON	2.2K	5%	1/4W F
R158	1-249-421-11	CARBON	2.2K	5%	1/4W F
R160	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
S103	1-762-750-11	SWITCH, TACTILE (BOOST)			
S105	1-762-750-11	SWITCH, TACTILE (SHIFT)			
S106	1-762-750-11	SWITCH, TACTILE (DIRECT)			
S107	1-762-750-11	SWITCH, TACTILE (EQ ON/OFF)			
S108	1-762-750-11	SWITCH, TACTILE (DVD/LD)			
S109	1-762-750-11	SWITCH, TACTILE (6)			
S110	1-762-750-11	SWITCH, TACTILE (1)			
S111	1-762-750-11	SWITCH, TACTILE (INPUT)			
S112	1-762-750-11	SWITCH, TACTILE (TV/DBS)			
S113	1-762-750-11	SWITCH, TACTILE (7)			
S114	1-762-750-11	SWITCH, TACTILE (2)			
S115	1-762-750-11	SWITCH, TACTILE (GENRE)			
S116	1-762-750-11	SWITCH, TACTILE (PHONO)			
S117	1-762-750-11	SWITCH, TACTILE (8)			
S118	1-762-750-11	SWITCH, TACTILE (3)			
S119	1-762-750-11	SWITCH, TACTILE (SF MODE)			
S120	1-762-750-11	SWITCH, TACTILE (TUNER)			
S121	1-762-750-11	SWITCH, TACTILE (9)			
S122	1-762-750-11	SWITCH, TACTILE (4)			
S123	1-762-750-11	SWITCH, TACTILE (SF ON/OFF)			
S124	1-762-750-11	SWITCH, TACTILE (CD)			
S125	1-762-750-11	SWITCH, TACTILE (0)			
S126	1-762-750-11	SWITCH, TACTILE (5)			
S127	1-762-750-11	SWITCH, TACTILE (TAPE)			
S128	1-762-750-11	SWITCH, TACTILE (VIDEO1)			
S130	1-762-750-11	SWITCH, TACTILE (VIDEO2)			
**********					
*	1-670-000-11	TUNER BOARD			
		**********			
		< CAPACITOR >			
C382	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CNS304	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNS305	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
**********					

Ref. No.	Part No.	Description			Remarks
*	1-670-003-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-162-215-31	CERAMIC	47PF	5%	50V
C206	1-162-215-31	CERAMIC	47PF	5%	50V
C207	1-162-215-31	CERAMIC	47PF	5%	50V
C209	1-164-159-11	CERAMIC	0.1uF		50V
C210	1-164-159-11	CERAMIC	0.1uF		50V
C211	1-164-159-11	CERAMIC	0.1uF		50V
C212	1-164-159-11	CERAMIC	0.1uF		50V
C213	1-126-933-11	ELECT	100uF	20%	16V
C214	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CNS211	1-784-733-11	CONNECTOR, FFC 11P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
		< IC >			
IC201	8-759-529-20	IC NJM2296D			
IC202	8-759-701-65	IC NJM79M05FA			
		< JACK >			
J201	1-766-399-11	JACK, PIN 3P (MONITOR/VIDEO1)			
J202	1-766-400-11	JACK, PIN 2P (VIDEO2)			
J203	1-766-400-11	JACK, PIN 2P (TV/DBS)			
J204	1-563-330-11	JACK (S-LINK)			
		< RESISTOR >			
R201	1-247-804-11	CARBON	75	5%	1/4W
R202	1-247-804-11	CARBON	75	5%	1/4W
R203	1-247-804-11	CARBON	75	5%	1/4W
R204	1-247-804-11	CARBON	75	5%	1/4W
R205	1-247-804-11	CARBON	75	5%	1/4W
R206	1-247-804-11	CARBON	75	5%	1/4W
R207	1-247-804-11	CARBON	75	5%	1/4W
RRR4	1-249-417-11	CARBON	1K	5%	1/4W F
**********					

VOLUME

Ref. No.	Part No.	Description			Remarks
*	A-4414-304-A	VOLUME BOARD, COMPLETE ********** (Including L.B BOARD)			
		< CAPACITOR >			
C410	1-126-233-11	ELECT	22uF	20%	50V
C411	1-126-233-11	ELECT	22uF	20%	50V
C412	1-126-233-11	ELECT	22uF	20%	50V
C413	1-162-199-31	CERAMIC	10PF	5%	50V
C414	1-162-199-31	CERAMIC	10PF	5%	50V
C415	1-162-199-31	CERAMIC	10PF	5%	50V
C421	1-162-286-31	CERAMIC	220PF	10%	50V
C422	1-162-286-31	CERAMIC	220PF	10%	50V
C423	1-162-286-31	CERAMIC	220PF	10%	50V
C460	1-126-233-11	ELECT	22uF	20%	50V
C461	1-126-233-11	ELECT	22uF	20%	50V
C462	1-126-233-11	ELECT	22uF	20%	50V
C463	1-162-199-31	CERAMIC	10PF	5%	50V
C464	1-162-199-31	CERAMIC	10PF	5%	50V
C465	1-162-199-31	CERAMIC	10PF	5%	50V
C471	1-162-286-31	CERAMIC	220PF	10%	50V
C472	1-162-286-31	CERAMIC	220PF	10%	50V
C473	1-162-286-31	CERAMIC	220PF	10%	50V
		< CONNECTOR >			
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNS402	1-564-726-11	PIN, CONNECTOR (SMALL TYPE)10P			
		< IC >			
IC408	8-759-634-50	IC M5218AL			
IC409	8-759-634-50	IC M5218AL			
IC410	8-759-634-50	IC M5218AL			
		< RESISTOR >			
R108	1-249-411-11	CARBON	330	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R414	1-249-437-11	CARBON	47K	5%	1/4W
R415	1-249-437-11	CARBON	47K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-247-843-11	CARBON	3.3K	5%	1/4W
R418	1-249-437-11	CARBON	47K	5%	1/4W
R419	1-249-437-11	CARBON	47K	5%	1/4W
R420	1-249-437-11	CARBON	47K	5%	1/4W
R421	1-249-437-11	CARBON	47K	5%	1/4W
R463	1-249-437-11	CARBON	47K	5%	1/4W
R464	1-249-437-11	CARBON	47K	5%	1/4W
R465	1-249-437-11	CARBON	47K	5%	1/4W
R466	1-249-429-11	CARBON	10K	5%	1/4W
R467	1-247-843-11	CARBON	3.3K	5%	1/4W
R468	1-247-843-11	CARBON	3.3K	5%	1/4W
R469	1-249-437-11	CARBON	47K	5%	1/4W
R470	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description	Remarks
		< VARIABLE RESISTOR >	
RV401	1-225-446-11	RES, VAR, CARBON 100K × 6 (MASTER VOLUME)	
RV402	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	
		**********	
		MISCELLANEOUS **********	
12	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)	
13	1-769-959-11	WIRE (FLAT TYPE) (11 CORE)	
66	1-773-285-11	WIRE (FLAT TYPE) (29 CORE)	
⚠73	1-769-743-11	CORD, POWER	
76	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)	
⚠T901	1-431-887-11	TRANSFORMER, POWER	
⚠TM301	1-693-407-11	TUNER	
		**********	
		ACCESSORIES & PACKING MATERIALS **********	
	1-501-374-11	ANTENNA, LOOP	
	3-810-765-11	MANUAL, COMMONNESS INSTRUCTION (ENGLISH)	
	3-864-230-11	MANUAL, INSTRUCTION (RM-PP401) (ENGLISH)	
	3-864-484-11	MANUAL, INSTRUCTION (ENGLISH)	
	8-917-634-90	REMOTE COMMADER RM-PP401	
	4-987-977-01	LID, BATTERY CASE (For RM-PP401)	
		**********	
		HARDWARE LIST **********	
#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 TT (B)	
#2	7-685-881-09	SCREW +BVTT 4 × 8 (S)	
#3	7-685-872-09	SCREW +BVTT 3 × 8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.